Relays and solid-state relays Klippon® Relay

Version 2025



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Relays and solid-state relays Klippon® Relay

Catalogue 4.2

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Switch to simple – with Klippon® Relay High-quality relays with unique all-round service

Whether switching, separating, amplifying, or multiplying: relays perform a multitude of different tasks in industrial applications. They have very specific characteristics and are available in almost innumerable varieties on the market.

Klippon® Relay from Weidmüller makes your choice easy. Our worldwide unique all-round offer combines maximum relay variety with matching accessories and first-class service. We provide you with high-quality products that have been thought out down to the smallest detail, combined with comprehensive support from product selection to modern data services. Only with Klippon® Relay can you be sure to get the right relay for your specific needs – and save time and money. That's our promise!





Simply selectable

We offer you comprehensive support in choosing the right relay, support you in selecting accessories, and provide tips for installation and maintenance. This saves time and gives you the security of getting the perfect product for each specific application.



Simply reliable

Our support enables you to obtain optimally dimensioned relays and solid-state relays for your application within a very short time. This way you can reliably avoid unnecessary machine and system damage and reduce downtimes to a minimum.



Simply safe

Klippon® Relay products ensure comprehensive operational safety. Whether large temperature ranges, strong vibrations, fast switching cycles, certain safety requirements, or specific standards and directives: You can get a suitable solution for every environment.



Simply maintainable

With Klippon® Relay you can significantly reduce your maintenance effort. Optimum marking options, clear status displays, consistent product labels, connection markings, and much more make your work easier, faster, cheaper, and safer.



Simply efficient

Klippon® Relay products are easy, fast, and convenient to install. The PUSH IN technology shortens wiring times. And our fully assembled and tested relay KITs save time during installation and commissioning.



Simply profitable

Many products in our Klippon® relay portfolio have multi-voltage inputs, which reduces the width of your stock. Our pre-assembled relay KITs save you even more logistics effort by speeding up material management, storage, and retrieval.

Switch to solution-oriented - with Klippon® Relay

The application range of our relay modules, power solidstate relays and solid-state relays

Today, custom solutions and components are used in many industrial applications, with the goal of improving system efficiency and productivity. With our application range, we offer you a customised portfolio of relay modules and opto modules that you can use for optimisation in a wide variety of applications. We advise you with our professional expertise, and work with you to develop the best solution for your purpose.



Solutions for more productivity

Highly flexible design processes – with Klippon® Relay

For more than 40 years, we have specialised in the optimisation of cabinet infrastructures. Our wide range of relay modules, solid-state relays and additional value-added services combine the highest standards with ultimate quality. Less wiring effort, housing optimisation through space saving, optimal marking and cost reductions – our customers challenges are our motivation.

Our assortment impresses through reliability, longevity and safety. Supplemented by our digital data support, switching load consulting and online selection guides, we support our customers throughout the entire work process – from the planning phase to installation and operation.

In our universal range, you will find an extensive portfolio of relay modules and solid-state relays in various designs.



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In our application range, you will find a tailor-made portfolio of products to increase your productivity and safety for various fields of application.

Visit our website for more information www.weidmueller.com/klipponrelay

Reliable switching of industrial loads and safe separation and multiplication of signals

With our high-performance relay modules and solid-state relays

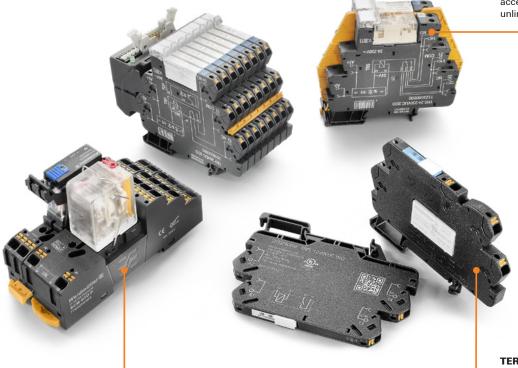
Universal range

Relay modules

For switching and amplifying digital signals in automation technology and for galvanic isolation.

TERMSERIES

The all-rounder. Modular relay modules from 6 mm width with extensive accessories, large selection of variants and unlimited cross-connection possibilities.



D-SERIES

The industrial relay modules with innovative features, an extensive range of variants and a wide assortment of designs for a variety of applications.



TERMSERIES-compact

Ultra-compact relay modules from TERMSERIES-compact with soldered relays, the smart all-round choice with a particularly low profile and extensive accessories.



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Solid-state relaysFor wear-free switching and amplification of digital signals in automation engineering.



Weidmüller ₹ VII 3043770000

Reliable switching of industrial loads and safe separation and multiplication of signals

With our high-performance relay modules and solid-state relays

Application range





Special loads

Highly durable solid-state relay and relay module for low-wear switching of high inductance levels and inrush currents – reliable, safe, and space-saving.





Sensor isolation

Space-saving, reliable and fast switching solid-state relay and relay module with gold contacts for isolating sensor signals from the field. Specially designed for reliably switching small loads.





Signal adaption

Space-saving solid-state relay and relay module for adapting digital signals from external systems to the existing system environment. Costefficient use without PLC input cards.

Weidmüller ₹ 3043770000





High switching frequencies

Specially developed solid-state relays and opto modules for reliable and delay-free switching of extremely fast signals up to 550 kHz. Ideally suitable, for example, for high-speed machines.





Timing functions

Reliable timing relay for delaying, extending or clocking signals, as well as for error compensation at high cycle rates or with short impulses - primarily in system and building automation.



SIL

Functional safety

Standardised safety relay for switching signals in safety-relevant systems and processes. Optimal error detection and avoidance to protect personnel and materials.





Specialised relay for switching high industrial loads. Power-solid-state relay (PSSR) up to 35 A and miniature contactors (PWR) up to 30 A to cover different applications.

Digital configuration – direct requestsEfficient engineering with the Weidmüller Configurator

Whether product selection, project planning, automated production or installation: consistently available data models are a cornerstone of digitalised development and production processes. They require standardised product data and interfaces between the interlinked engineering tools as well as integration into the company's IT network.

With the Weidmüller Configurator (WMC) we offer you the ideal basis for efficient product development. Speed up your panel planning by up to 70% and increase your overall productivity. Benefit from extremely high levels of data transparency and availability throughout your entire engineering process.

Integrated digital planning - quick and easy

Provision of intelligent item data

The product data from the Weidmüller Configurator supports you during project planning and can be fully integrated into all common engineering tools. You achieve complete data transparency and availability in all process steps – the basic requirements for Industry 4.0 in panel building.

Always the right configuration

The automatic filter function makes it easier to put together suitable relay combinations. Selection errors are corrected automatically, so that only suitable accessories can be included in the configuration. This makes planning easier, saves time and enables complete documentation of the terminal rails.

Reliable and simple marking

The Weidmüller Configurator makes continuous marking easier. Thanks to direct interfaces to CAD programs and the M-Print® PRO marking software, you can plan and mark your components in a single step.

Quick and easy product requests

Once the components have been put together, you can request them directly from the Weidmüller Configurator – either as individual components or as a preassembled complete solution on a terminal rail that can be installed directly on the mounting plate.

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Selection guide

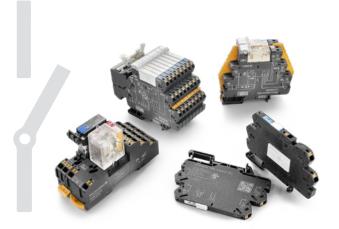
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A

Find suitable relay modules for your application

Basics for relay module selection





Electromechanical relays are a varied and cost-effective solution for a wide range of switching processes. They can be used for level and power adaptation and form interfaces between control, signalling and regulating equipment and peripherals. In spite of rising raw material prices, they are still very inexpensive and can be easily integrated into a wide variety of circuit types.

Relay modules from Weidmüller are extremely reliable, durable, and available in many different designs. The diversity of their applications in the various industrial sectors makes it necessary to select a suitable relay for each specific application. The following applies: Due to their design, relay modules are subject to mechanical and electrical wear, which must be taken into account when relay circuits are set up.

EN 60947-4-1 and EN 60947-5-1 describe various industrial reference loads such as resistive, capacitive, and inductive loads that stress the switching contact of a relay modules more or less. Electrical loads are formed out of a mixed load with ohmic, capacitive, and inductive load shares, though in practice, loads with a large inductive load share are used mostly. These include contactors, solenoid valves, motors, etc. We will take a closer look at these areas of application in the following.

Switching of large AC loads

If large AC loads are switched, the relay can in principal be operated until the specified maximum value of switching voltage, current, or power is reached. However, when switching AC loads, the switching voltage has a much smaller influence on the service life of the relay contact than the switching current. The reason for this is that the arc that occurs when the relay is switched off usually extinguish automatically at the next zero crossing of the load current. In applications with inductive loads, an effective protective circuit should be provided, as otherwise a significantly reduced service life can be expected.

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AC3 AC1 DC1 DC13 EN 60947

Switching of large DC loads

Relays can only switch off relatively small direct currents because the zero crossing for extinguishing the arc is missing here. The maximum direct current value is also dependent on the switching voltage as well as on design conditions such as contact gap and contact opening speed. Corresponding current and voltage values are documented in load limit curves.

With undamped inductive DC loads, these values are lower because the energy stored in the inductance can ignite an arc that carries the current through the open contacts. The resulting arc significantly reduces the service life compared to an resistive load.

An effective contact protection circuit can increase the service life of the contacts by 5 to 10 times compared to inductive loads that are not or unfavorably protected. Type 1N4007 freewheeling diodes are preferably suitable for this purpose.

Switching of utilization categories according to EN 60947

When selecting the relay, the maximum breaking capacity for AC loads and the DC breaking values taken from the load limit curves provide only rough reference values. In practice, however, this is not sufficient because real loads in industrial applications predominantly have inductive or capacitive load shares. Those variables can result in very different values for the service life.

To avoid these disadvantages, the contactor standard EN 60947 divides the loads into different use categories, such as DC-13 or AC-15. The standard is also partly applied to relays. However, users must be aware that these values are only partially suitable for practical use since all DC-13 and AC-15 test loads are highly inductive and operated without a protective circuit.

More precise statements on switching capacity and service life can be given based on specific application data. The more extensive the data collection, the more accurately the service life can be estimated for the respective applications and, if necessary, optimisation suggestions made. For critical applications, the users should determine the service life values themselves.

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Switching of small resistive and inductive loads

Selection table for signal relays

TERMSERIES + TERMSERIES-compact

The table below helps you to select suitable relay modules for the specified loads. A service life of around 100,000 switching operations is assumed.



Suitable KITs are available for all series on this page.







		1 NO / 1 CO AgNi	RSS 1 CO AgNi	RSS 1 CO AgSnO	RCL 1 CO	RCL 1 NO AgSnO
		[4		
Example Part No. Sin	gle relay 24 V DC input		4060120000	1984090000	1984040000	1984080000
Example Part No. KIT	24 V DC input	2773890000	2618000000	2618020000	2618100000	2618090000
Insulation between in	nput and output	reinforced insulation	reinforced insulation	reinforced insulation	reinforced insulation	reinforced insulation
Contact material		AgNi	AgNi	AgSn0	AgNi	AgSnO
Width plugged on so	cket	6.4 mm	6.4 mm	6.4 mm	12.8 mm	12.8 mm
Socket connection te	chnologies	PUSH IN	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw
Max. Operating temp	erature	0° ℃	0° €	60 °C	0° €	60 °C
Resistive AC load	AC1 loads: Heaters 250 V AC	< 5 A	< 5 A	< 5 A	< 12 A	< 13 A
Inductive AC load	AC15 loads: Valves, contactors 250 V AC	< 1.5 A	< 1.5 A	< 1.7 A	< 3 A	< 3.5 A
inductive AC load	AC3 loads: 1-phase motors 250 V AC	< 0.5 A	< 0.5 A	< 0.6 A	< 1 A	< 1.5 A
Resistive DC load	DC1 loads: Heaters 24 V DC	< 3 A	< 3 A	< 3 A	< 8 A	< 9 A
Inductive DC load	DC13 loads: Valves, contactors 24 V DC	< 1 A	< 1 A	< 1.2 A	< 2 A	< 3 A
Inrush current optin	nized	-	-	-	-	80 A, 20 ms
Recommended field of application		Miniature switching relay for decoupling PLC's and for switching industrial small loads < 1.5 A in the smallest space.	Miniature switching relay for decoupling PLC's and for switching industrial small loads < 1.5 A in the smallest space.	Miniature switching relay for decoupling PLC's and for switching industrial small loads < 1.7 A in the smallest space.	Miniature industrial relay for decoupling PLC's and switching industrial small loads < 3 A.	Miniature industrial relay with a special contact for switching industrial small loads < 3.5 A with inrush currents up to 80 A / 20 ms. Additional information on page 18.

The indicated currents only apply to the normally open contact. The data of the normally closed contact are to be set at approx. one third of the specified values. The real service life can be both above and below the specified value because each load stresses the switching contact differently and other environmental factors influence the service life of the switching contact, e.g. ambient temperature, mounting position, switching frequency, and many more. Therefore, these values are without guarantee and serve as orientation for better dimensioning. They may not be used as B10 or B10d values for the calculation of failure data such as MTTF or MTTFd either. The assessment of the maximum load capacity was carried out on the basis of many years of practical experience as well as life cycle tests under laboratory conditions.

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Digital selection guide for electromechanical relay modules **www.weidmueller.com/relayselector**

D-SERIES











information on page 19.







RCL 1 NO AgSnO + W	RCL 2 CO	RCH 2 CO FG	DRI 1 CO	DRI 2 CO	DRM 2 CO	DRM 4 CO
+W				<u> </u>		4 4 4
8866920000	4058570000	2723360000	7760056315	7760056340	7760056069	7760056097
2617930000	2618400000	2706430000	2576210000	2576190000	2576120000	2576140000
reinforced insulation	reinforced insulation	reinforced insulation	basic insulation	basic insulation	basic insulation	basic insulation
AgSnO + W	AgNi	AgNi	AgSn0	AgSn0	AgNi	AgNi
12.8 mm	12.8 mm	12.8 mm	16 mm	16 mm	31 mm	31 mm
PUSH IN and screw	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw	PUSH IN and screw
0° €	60 °C	0° €	55 °C	55 °C	55 °C	55 °C
< 12 A	< 6 A	< 6 A	< 10 A	< 5 A	< 10 A	< 5 A
-	< 1.5 A	< 2.5 A	< 3 A	< 1.5 A	< 2.5 A	< 1.5 A
-	< 0.7 A	< 0.8 A	< 1 A	< 0.5 A	< 1 A	< 0.5 A
< 8 A	< 4 A	< 6 A	< 8 A	< 4 A	< 7 A	< 3.5 A
-	< 1 A	< 1.5 A	< 2 A	< 1 A	< 2 A	< 1 A
165 A, 20 ms 800 A, 200 µs	-	-	-	-	-	-
Miniature industrial relay with a special tungsten pre-contact for switching industrial loads with very high inrush currents up to 800 A / 200 µs. Only very conditionally suitable for inductive loads. Additional	Miniature industrial relay for decoupling PLC's, multiplying signals, and switching industrial small loads < 1.5 A.	Miniature industrial relay with forcibly guided contacts according to EN 61810-3 type B for decoupling of PLC's and for switching of industrial small loads < 2.5 A.	Miniature industrial relay with optional mechanical test button for decoupling PLC's and switching industrial small loads < 3 A.	Miniature industrial relay with optional mechanical test button for decoupling PLC's, multiplying signals, and switching industrial small loads < 1.5 A.	Miniature industrial relay with optional mechanical test button for decoupling PLC's, multiplying signals, and switching industrial small loads < 2.5 A.	Miniature industrial relay with optional mechanical test button for decoupling PLC's, multiplying signals, and switching industrial small loads < 1.5 A.

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Switching of large resistive and inductive loads

Selection table for power relays

D-SERIES

The table below helps you to select suitable relay modules for the specified loads. A service life of around 100,000 switching operations is assumed.













		DRR 2 CO	DRR 3 CO	DRL 1 CO	DRL 2 CO	DRL 3 CO	DRL 4 CO
		7 1	F9 F9 F9		F9 F9	19 19 19	19 19 19 19
Example Part no. Sir	igle relay	2765020000	2765070000	2765110000	2765160000	2765220000	2765270000
Example Art. no. KIT	24 V DC input		-	-	-	-	
Insulation between i	nput and output	Basic insulation	Functional insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation
Contact material		AgSn0	AgSn0	AgSn0	AgSn0	AgSnO	AgSn0
Width plugged on so	cket	38 mm	38 mm	24 mm	24 mm	34 mm	44 mm
Socket connection to	echnologies	Screw	Screw	Screw	Screw	Screw	Screw
Max. Operating temp	perature	55 °C	55 °C	55 °C	55 °C	55 °C	55 °C
Resistive AC load	AC1 loads: Heaters 250 V AC	< 10 A	< 10 A	< 16 A	< 10 A	< 10 A	< 10 A
Inductive AC load	AC15 loads: Valves, contactors 250 V	< 3.5 A	< 3.5 A	< 5.5 A	< 4.5 A	< 4,5 A	< 4.5 A
Illuuctive AC todu	AC3 loads: 1-phase motors 250 V AC	< 1.5 A	< 1.5 A	< 3.5 A	< 2 A	< 2 A	< 2 A
Resistive DC load	DC1 loads: Heaters	< 10 A	< 10 A	< 10 A	< 7 A	< 7 A	< 7 A
Inductive DC load	DC13 loads: Valves, contactors 24 V DC	< 2.5 A	< 2.5 A	<4 A	< 3.5 A	< 3,5 A	< 3.5 A
Inrush current optin	nized	-	-	-	-	-	
Recommended field of application		Power relay (octal relay) for switching several industrial loads < 3.5 A.	Power relay (octal relay) for switching several industrial loads < 3.5 A.	Miniature power relay for switching industrial loads < 5.5 A.	Miniature power relay for switching several industrial loads < 4.5 A.	Miniature power relay for switching several industrial loads < 4.5 A.	Miniature power relay for switching several industrial loads < 4.5 A.

The indicated currents only apply to the normally open contact. The data of the normally closed contact are to be set at approx. one third of the specified values. The real service life can be both above and below the specified value because each load stresses the switching contact differently and other environmental factors influence the service life of the switching contact, e.g. ambient temperature, mounting position, switching frequency, and many more. Therefore, these values are without guarantee and serve as orientation for better dimensioning. They may not be used as B10 or B10d values for the calculation of failure data such as MTTF or MTTFd either. The assessment of the maximum load capacity was carried out on the basis of many years of practical experience as well as life cycle tests under laboratory conditions.

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POWER









DRW 2 CO	DRW 3 CO	DRH 1 NO	DRH 2 NO	PWR 1 NO	PWR 2 NO
F9 F9	F9 F9 F9	N d	d N d	[° °]	
2765600000	2765650000	1219850000	1220150000	1219480000	1219550000
-	-	-	-	-	-
Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation	Basic insulation
AgSn0	AgSn0	AgSn0	AgSn0	AgSn0	AgSn0
39 mm	39 mm	39 mm	39 mm	51 mm	51 mm
Screw	Screw	Screw	Screw	Screw	Screw
2° 00	00 °C	00 °C	2° 06	55 °C	55 °C
< 16 A @ 250 V < 10 A @ 400 V	< 16 A @ 250 V < 10 A @ 400 V	< 16 A @ 400 V	< 16 A	< 30 A	< 25 A
< 5.5 A	< 5 A	< 7 A	< 6 A	< 12 A	< 8.5 A
< 3.5 A	< 3 A 1-phasig < 3 A 3-phasig	< 4 A	< 3,5 A	< 8 A	< 6 A
< 16 A	< 16 A	< 16 A @ 24 V DC < 12 A @ 125 V DC < 10 A @ 220 V DC	< 16 A @ 24 V DC < 7 A @ 125 V DC < 3 A @ 220 V DC	< 25 A	< 20 A
< 4 A	< 3.5 A	< 12 A @ 24 V DC < 5 A @ 125 V DC < 3 A @ 220 V DC	< 9 A @ 24 V DC < 2 A @ 125 V DC < 1 A @ 220 V DC	< 7 A	< 6 A
		-	-		
Power relay with mechanical test button for switching multiple industrial loads < 5.5 A.	Power relay with mechanical test button for switching industrial loads < 5 A or a 3-phase electric motor < 3 A.	Power relay with blow out magnet and mechanical test button specially designed for switching industrial loads with high DC voltage up to 220 V DC 3 A.	Power relay with blow out magnet and mechanical test button especially for switching industrial loads with high DC voltage up to 220 V DC 1 A.	Power relay (miniature contactor) with double contact opening for switching industrial loads < 12 A.	Power relay (miniature contactor) with double contact opening for switching industrial loads < 8.5 A.

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Additional information on the selection tables

Simple formulas for calculating individual values

Calculating the service life of the relay contacts for different switching currents

In the previous tables we gave you the maximum recommended currents at various loads for a service life of approx. 100,000 switching cycles. If you switch lower currents, the service life of the relay contacts will be extended. With the following formulas you can approximately calculate how the service life of the relay contacts will change.

Example: A 24 V DC solenoid valve with 200 mA current consumption should be switched with a 6.4 mm wide TERMSERIES RSS 1 CO relay. A solenoid valve corresponds to a DC13 load. According to the table, a switching current of max. 1 A is specified for the relay at this load. To calculate the expected service life, proceed as follows:

$$x = \frac{I_{T_{able}}}{I_{Ann}} = \frac{1 A}{200 mA} = 5$$

The expected service life when switching a 200 mA solenoid valve should be approx. 500,000 switching cycles.

I_{App} = Switching current in the application

= DC Switching current at the DC switching voltage in the application

I_{Load curve} = DC Switching current from the load limit curve of the data sheet

I_{Nom} = Continuous current from relay data sheet

 I_{Table} = Switching current from the selection table for the respective load

 $\mathbf{n}_{\mathsf{new}}$ = Service life at switching current in the application

= Reduction factor of the switching current

Calculating the switching currents for voltages that deviate from the values in the table

AC switching voltage:

With AC loads, the switching current has the greatest influence on the service life. Therefore, the switching currents from the table can also be used for switching voltages up to 100 V AC. For values below 100 V AC, the service life in-creases at the same switching current:

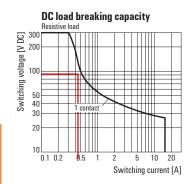
- · at 24 V AC four times the service life
- at 60 V AC twice the service life

Example: If the table shows a switching current of 2 A for a 250 V AC AC15 load, then these 2 A are also applicable for 120 V AC. At 24 V AC switching voltage, the expected service life increases four times to 400,000 switching cycles.

DC switching voltage:

When switching DC loads, the switched voltage has a large influence on the maximum switching current of the relay contact. This can also be seen from the DC load breaking curve given in the data sheet. The following formulas can be used to roughly determine the maximal switching current for other DC switching voltages:

Example: A TERMSERIES RCL 1 CO relay with a DC13 load and a switching voltage of 110 V DC. According to the table a maximum of 2 A at 24 V DC applies to a DC13 load for a service life of 100,000 switching cycles.



The curve shows a maximum switching current of approx. 0.45 A with resistive load. This must now be set in relation to the rated current of the relay (16 A) from the data sheet and the value for a DC13 load from the table.

$$x = \frac{I_{Table}}{I_{No...}} = \frac{2 A}{16 A} = 0.125$$

$$I_{DC} = I_{Load curve} \cdot x = 0.45 A \cdot 0.125 = 0.056 A = 56 mA$$

To achieve 100,000 switching cycles, a DC13 load of 56 mA can be switched with a switching voltage of 110 V DC.

I_{DC}

A

Select contact materials suitable for the application

Information of various contact materials

Relay modules are used in a wide variety of industrial areas and environments. The relays must therefore be adapted to the various tasks by selecting suitable contact materials. The following applies: the load capacity of the contacts for voltage, current, and power depends essentially on the material used. To make the selection easier for you, we have compared the most important characteristics of the contact materials.

Criteria for the selection of the contact material:

- Welding tendency
- Burn-off resistance
- · Contact resistance
- · Material migration
- Resistance to harmful gas atmospheres



Please obtain information when selecting a relay in this table:

Material	Characteristics	Recommended applications
Ag	Higher welding tendency than AgSn0 High burn-off resistance Lower contact resistance than AgSn0 Mean material migration	 Suitable for low to high resistive and low inductive load (solenoid valves, fans, heaters) Standard contact material for a variety of relays Limited suitable for high inrush currents Suitable for loads > 12 V/10 mA or 5 V/100 mA
Silver-nickei	Low resistance to harmful gas atmospheres	
Ag Ni Silver-nickel flash gold plated	Higher welding tendency than AgSn0 High burn-off resistance (gold just storage protection) Lower contact resistance than AgSn0 Mean material migration Low resistance to harmful gas atmospheres	 Suitable for low to high resistive and low inductive load (solenoid valves, fans, heaters) The flash gold plating is a storage protection, but offers no functional improvement to AgNi Limited suitable for high inrush currents Suitable for loads > 12 V/10 mA or 5 V/100 mA
Ag Ni Silver-nickel hard gold plated	Very low resistance to burn-off Lowest contact resistance High resistance to harmful gas atmospheres	Suitable for decoupling control inputs and other small resistive loads Suitable for loads > 1 V/1 mA and < 30 V/10 mA After switching loads > 30 V/100 mA, small powers can no longer be switche reliably becaus the hard gold plating has been burned-off. Only the characteristic of the base contact material AgNi still apply.
Silver-Tin-Oxide Ag Sn	Lower welding tendency than AgNi High resistance to burn-off Average contact resistance Lower material migration than AgNi Very low resistance to harmful gas atmospheresn	Suitable for medium to high resistive DC-loads and low up to medium inductive DC loads du to low material migration. Thanks to the low tendency to weld, it is also well suited for load with higher inrush currents such as lamp loads, light capacitive loads, fluorescent tubes, etc. Suitable for loads > 12 V/100 mA
Tungsten	Lowest welding tendency Very high resistance to burn-off Highest contact resistance Low material migration	• Suitable for loads with very high inrush currents of up to 165 A/20 ms or 800 A/200 μ (e.g. lamp loads, capacitive loads, fluorescent tubes, switched-mode power supplies etc.) • Often used as a pre-making contact in parallel to AgSn0 contacts

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Protect relay contacts effectively

Selection criteria for protective circuits of inductive loads

In our selection tables we specified the maximum recommended switching currents for inductive loads without protective circuits. If you want to increase the service life of the contacts, you must equip the relay contacts with an effective protective circuit.

The protective circuit on the coil side of a relay module can, for example, be implemented with an integrated or additionally pluggable freewheeling diode. However, this only protects the controlling periphery from the voltage peaks that occur in the coil of the relay module. The relay contact is usually not sufficiently protected against the voltage peaks of the inductive load to be switched, although with optimum dimensioning almost the same values for switching capacity or switching cycles can be achieved as with resistive load.

The largest reduction factor for the service life of a relay contact is the arc generated during switching off inductive loads. It is caused during the switching process by the energy stored in the coil and can destroy the contact through material evaporation and material migration.

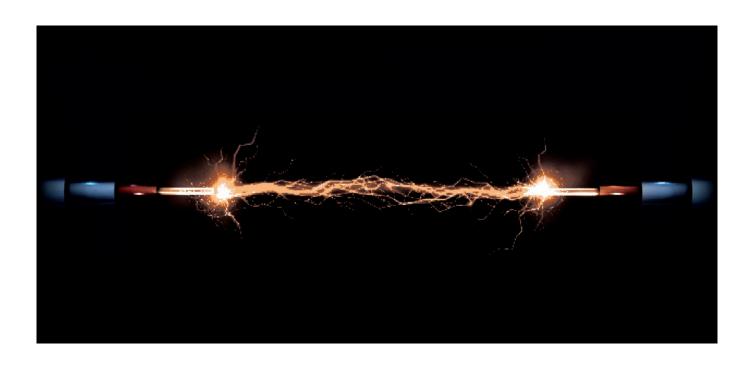
With DC voltage and standing arc, the relay can even fail during the first switching cycle. Voltage peaks caused by electric arcs can reach values up to several 1,000 volts. A protective circuits must be used to suppress the formation of electric arcs.

In the following, we will explain the correct installation of the protective circuit and the effectiveness of the most common types of protective circuit. There are various ways to install an effective protective circuits. For example, the protective circuit can be mounted either parallel to the relay contact or parallel to the load.

However, the protective measure should always apply directly to the source of the fault. Therefore, the protective circuit of the load is preferable to the circuit of the contact.

Advantages of a protective circuit at the load:

- When the contact is open, the load is still galvanically isolated from the operating voltage
- The switch-off peaks of the load cannot be coupled into the control lines running in parallel

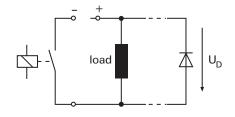


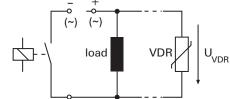
Weidmüller ₹2 3043770000

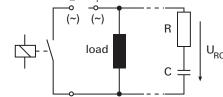
Free-wheeling diodes

Varistors

RC modules







Free-wheeling diodes are used to protect against overvoltages caused by self-induction when an inductive DC voltage load is switched off (e.g. solenoid valves or electric motors). They ensure that the voltage peaks that occur are reduced to the value of the diode forward voltage (U_D). However, this leads to a delay in the voltage drop and thus in the switch-off process of the load.

The functional principle of varistors is also based on breakdown voltages (U_{VDR}) . High energies can be dissipated, but this causes the component to aging. Therefore, the breakdown voltage is reduced over time and the leakage current is increased.

With RC modules, voltage peaks are compensated via a capacitor. Thanks to its special characteristics during charging and discharging the interference pulses are already filtered out during the voltage rise and not only when the breakdown voltage ($U_{\rm RC}$) is reached.

Advantage:

- · Uncritical dimensioning
- Very positive effect on the service life of the contacts

Disadvantage:

- Significantly extended switch off process
- Only suitable for DC voltage

Advantage:

- Uncritical dimensioning
- Suitable for DC and AC voltage
- · Slightly extended switch off process

Disadvantage:

- Complex and expensive with increasing power
- Low effect on the service life of the contact

Advantage:

- Suitable for DC and AC voltage
- Slightly extended switch off process

Disadvantage:

- · Exact dimensioning required
- High inrush current
- Low effect on the service life of the contact



In order to implement a protective circuit tailored to the load, suitably dimensioned protective circuits are available as accessories from many manufacturers of inductive loads such as contactors or solenoid valves. This enables simple integration of the protective circuit on the load.

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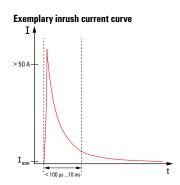
Switching of capacitive loads

Relays for LED lamps and devices with high inrush currents

Loads with capacitive load shares, especially LED lamps, require extreme demands on switching contacts regardless of the voltage type. They cause highly energetic current peaks at the moment of switch-on. These can reach over 150 A and weld the contact.

Until a few years ago, the lighting of buildings and facilities was provided almost exclusively by light bulbs or fluorescent tubes of buildings and facilities. Nowadays, they are replaced by LED lamps, which consume much less power and are often much more durable. With retrofit solutions, such as LED lamps with E27 bases, this can be done quite easily. In new installations, LED lights are provided anyway.

However, problems often arise with relay circuits, such as those found in staircase illumination: LED lamps generate very strong inrush currents due to their design. Although these are much shorter than with conventional light sources, they can generate currents of over 150 A and thus weld the relay contact at the moment of switch-on. Therefore, when switching LED lamps with standard relays, welded contacts occur after a very short time, sometimes even after the first switch-on. Furthermore, in more and more conventional industrial loads, such as solenoid valves and contactors, capacitive load shares are hidden in input circuits, as these enable operation over a wide input voltage range. In order to switch such loads reliably, relays specially designed for this purpose are required. These relays have special contact materials and designs that can reliably switch significantly higher current peaks than conventional relays with e.g. AgNi as contact material.





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The characteristics of the various contact materials are listed below and assigned to recommended areas of application:

TERMSERIES

Special relay modules <u>with</u> tungsten contact for very high inrush currents of up to 800 A for 200 µs

Single relay, 12.8 mm wide	Order No.
RCLS3T024W	8866920000
Complete module/KIT, 12.8 mm wide	
TRP 24VDC 1NO HCP	2617930000
TRS 24VDC 1NO HCP	1479810000
TRP 24-230VUC 1NO HCP ED2	2663140000
TRS 24-230VUC 1NO HCP ED2	2662980000

Special relay modules <u>without</u> tungsten contact for high inrush currents of up to 80 A for 20 ms

Single relay, 12.8 mm wide	Order No.
RCLS3L024W	1984080000
Complete module/KIT, 12.8 mm wide	
TRP 24VDC 1NO HC	2618090000
TRS 24VDC 1NO HC	1479780000
TRP 24-230VUC 1NO HC ED2	2663130000
TRS 24-230VUC 1NO HC ED2	2662970000

Solid state relays for short and high inrush currents (<10 ms) e.g. of LED lamps or devices with wide range inputs

Pluggable solid-state module DC output, 12 mm wide	Order No.
SSR 10-32VDC/0-35VDC 5A	1421450000
SSR 24VDC/0-24VDC 3,5A	1132310000
Pluggable solid-state module DC output, 5 mm wide	
SSS Relais 24V/24V 2Adc	4061190000
Complete module/KIT, 12.8 mm wide	
TOP 24VDC 24VDC5A	2618840000
TOS 24VDC 24VDC5A	1990960000
TOP 24VDC 24VDC3.5A	2618700000
TOS 24VDC 24VDC3,5A	1127630000
Complete module/KIT, 6.4 mm wide	
TOP 24VDC 24VDC2A	2618720000
TOS 24VDC 24VDC2A	1127170000
Pluggable solid-state module, AC output, 5 mm wide	
SSS Relais 24V/230V 1Aac	4061210000
Complete module/KIT, 6.4 mm wide	
TOP 24VDC 230VAC1A	2618420000
TOS 24VDC 230VAC1A	1127410000

MICROOPTO

Solid state relays for short and high inrush currents (<10 ms) e.g. of LED lamps or devices with wide range inputs

Complete module, 6.1 mm wide	Order No.
MOS 24VDC/8-30VDC 2A	8937970000
MOS 24VDC/8-30VDC 2A E	1283230000



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3043770000 **Weidmüller ₹** A.13

Switching of very low power circuitsRelay for forwarding control signals

Low power circuits with values below 30 V/10 mA are mainly used in applications where signals has to be transmitted to control inputs, e.g. to a PLC. Such low loads do not produce a sufficient arc at the contacts.

However, this arc has two important functions:

On the one hand, it ensures continuous cleaning of the contacts; on the other hand, it can penetrate non-conductive foreign layers at the contacts. Such foreign layers are usually created by oxidation or sulfidation of common contact materials such as silver (Ag), silver-nickel (AgNi), or silver-tin oxide (AgSnO). The foreign layers can increase the contact resistance after a short time to such an extent that reliable switching of low loads is no longer possible.

For these reasons, gold (Au) is used as the contact material for relays switching small loads. It has proven itself due to its low and constant contact resistance and its resistance to ambient air containing sulphur.





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TERMSERIES

The all-rounder. Modular relay modules from 6 mm width with extensive accessories, large selection of variants, and unlimited cross-connection possibilities.

Single relay, 5 mm wide	Order No.
RSS112024	4061590000
Complete module/KIT, 6.4 mm wide	
TRP 24VDC 1CO AU	2618110000
TRS 24VDC 1CO AU	1123000000

Single relay, 12.8 mm wide	Order No.
RCL425024	4058580000
Complete module/KIT, 12.8 mm wide	
TRP 24VDC 2CO AU	2618530000
TRS 24VDC 2CO AU	1123730000

D-SERIES

Industrial relay modules with innovative features and a large selection of variants for various applications.

Single relay, 21 mm wide	Order No.
DRM270024LT Au	7760056185
DRM570024LT Au	7760056189

3043770000 **Weidmüller № A.15**

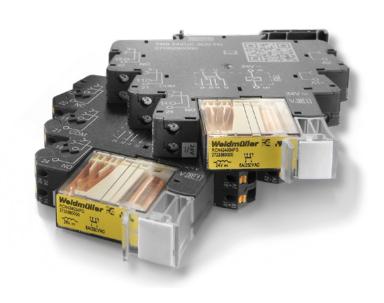
Forced guided contacts explained in detail

The difference to relays with conventional contacts

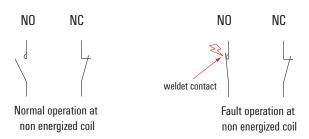
Relay modules with forcibly guided contacts use elementary relays according to IEC 61810-1 with a contact set according to IEC 61810-3. From the outside, they can hardly be differentiated from relays with conventional contacts, if at all. Due to their design, an opening failure of forcibly guided contacts can be reliably detected. Relays with such contacts have the following additional characteristics compared to relays with conventional contacts:

- Forcibly guided NC and NO contacts are designed in such a way that they cannot be closed at the same time
- If a contact of a forcibly guided contact set is welded, the antivalent contacts cannot close and the contact opening must be > 0.5 mm
- The contacts are located in contact chambers and are thus specially protected against other contacts and against the coil

Due to these normative requirements, the design and manufacturing effort for relays with positively driven contacts is much higher.



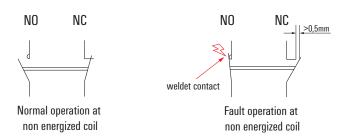
conventional relay



With standard relays, a normally closed contact (NC) can also be closed in case of the de-energized state. In this way, the NC and NO contacts can be closed at the same time and an opening failure cannot be reliably detected.

The normally open contact (NO) is welded in this example.

relay with forcibly guided contacts



The normally open contact (NO) is welded in this example. In this case, relays with forcibly guided contacts cannot have a normally closed contact (NC) which is closed in the de-energized state. In this way, the NC and NO contacts cannot be closed at the same time and an opening failure can be reliably detected. It is mechanically ensured that the NC contact remains open with a minimum contact gap of 0.5 mm even in the de-energized state.

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In addition, the standard distinguishes between two types of positive guidance, type A and type B:



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With type A relays, <u>all</u> contacts are mechanically positively driven with each other.

In an example of a six-pole relay with four NO contacts and two NC contacts, the four NO contacts are forcibly guided with both NC contacts. In this example, if one of the NO contacts welds, both NC contacts may no longer close if the relay is de-energized.

Type A relays with forcibly guided contacts can be found in our SAFESERIES Contact Extension.



In a type B relay, <u>not all</u> contacts of a contact set are positively driven with each other.

In an example of a six-pole relay with four NO contacts and two NC contacts, the four NO contacts are forcibly guided with just one of the NC contacts. In this example, if one of the NO contacts welds, the non-force-guided NC contact can still close if the relay is de-energized.

The other forcibly guided NC contact may not close. The status of the other NO contacts is undetermined. The non-force-guided NC contact can close because it is not forcibly guided to the other contacts in the relay. The contacts which are not forcibly guided must be specified in the data sheet.

Positively driven relays with changeover contacts (CO) are assigned to type B by the standard, only one NC or NO contact may be used per changeover contact. The reason for this is that the phenomenon of contact spring breakage cannot be excluded, so that in the event of a spring breakage of a changeover contact set, the NO and NC contacts of this contact set can be short-circuited.

Type B relays with forcibly guided contacts can be found in our TERMSERIES FG.



Visit our online catalogue for more information **eshop.weidmueller.com**

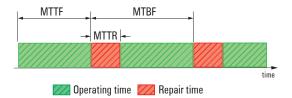
B10(d) + MTTF(d)

Short explanation and example calculation

1. Introduction of MTTF and MTBF

Failure data such as MTTF (Mean Time To Failure) or MTBF (Mean Time Between Failure) are becoming increasingly important in the planning of machinery. This article will explain the importance of these values for electromechanical relays and solid state relays.

For the planning of electrical machines, it is necessary to know the MTBF values for the individual components such as relays in order to calculate the probability of failure for the entire system. MTBF is the mean time between failures, so it includes the mean operating and the mean repair time (MTTR = Mean Time To Repair). MTBF, MTTF and MTTR values are usually given in years. However, in the case of electronic components such as relays, the repair time is not determined because it is not economical to repair defective relays. They are replaced after they are worn. That is why relays are referred just to MTTF. So you can also say: MTBF is equal to MTTF for electromechanical relays and solid-state relays. The MTTF value is a statistical key figure/parameter. It is determined by tests and empirical values and therefore gives no guarantee of a certain service life.



Difference between MTTF and MTTFd

The difference between MTTF and MTTFd (Mean Time to Failure dangerous) is that the MTTF value indicates the mean operating time to (any) failure, while the MTTFd value indicates the mean operating to a dangerous failure. Non-dangerous failures can lead to machine damage, but they are not relevant for safety considerations within the risk and hazard assessment. The MTTF value for individual components is usually obtained directly from the manufacturer. However, the manufacturer cannot provide an MTTFd value because he cannot ultimately assess which error in the application leads to a dangerous failure at the customer. In addition, the arrangement and alignment of several elements can also have an influence on the total time span until a dangerous failure. Above all, the possibility of executing a function in two channels and therefore redundant has a considerable influence on the MTTFd value of the entire system.

This means that the MTTFd must be determined by the person who develops the machine/plant and also plans the safety functions. This is usually the developer or the designer. These persons can calculate the MTTFd.

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MTTF for electromechanical relays

With electromechanical relays, the service life is strongly dependent on the number of switching cycles, the switched load and other environmental parameters such as temperature, mounting orientation, switching frequency and many more. This is because electromechanical relays are subject to mechanical and electrical wear, mainly due to contact erosion. For these reasons, the MTTF cannot be calculated from statistical values as it is the case with a solid-state relays, instead B10 values are determined. These B10 values are determined in complex and time-consuming test setups for various load cases, so there is only a selection of different B10 values and not every possible combination of switching current, load type and environmental parameters.

B10-value

The B10 value indicates the nominal service life in switching cycles where 90% of a unit of tested relays still work. It is therefore the average number of switching cycles, according to which 10% of relays are to be expected to fail. This value is a statistical expected value that was determined on the basis of lifetime tests. In real applications, the lifetime values differ from the B10 value, as each load is different and the environmental parameters, such as humidity, air pollution, heat, vibrations, radiation, etc., have an influence on the service life.

The loads used for the determination of the B10 values are specified in the contactor standard EN 60947 in different categories of use suchas z.B. DC-13 or AC-15. However, users must be aware that these loads reflect practice only to a limited extent. Because all DC-13 and AC-15 test loads are highly inductive and operate without a protection circuit. Furthermore, the B10 values are determined at significantly higher switching frequencies than usual in reality. This is done to shorten the test execution time, otherwise tests would take years to deliver a result. An increased switching frequency also represents an increased load on the relay than usual in reality. However, it is almost impossible to compare B10 values of different providers. To compare different relays, the relays would have to be measured in exactly the same test setup. For this reason, the B10 values are often only provided by the manufacturer on request.

MTTF calculation using the B10-value

For the calculation of the MTTF value, the respective B10 value which most closely corresponds to the real application is converted into the following formula from the standard EN ISO 13849-1:

MTTF = B10 / (0,1 x annual switching cycles in the application)

The annual switching cycles in the application must be determined by the user himself.

B10d-value

The B10d indicates the number of switching cycles according to which a dangerous failures occur in 10 % of the units considered. The addition "d" stands for "dangerous". The value is for the creationa risk and hazard analysis relevant and thus also for the evaluation of the safety of a machine or plant. If there is no knowledge of the number of hazardous failures, EN ISO 13849-1 recommends the following calculation for the B10d value:

B10d = B10 x 2

This means that it is assumed that every second failure is a dangerous failure.

MTTFd calculation using the B10d-value

For the calculation of the MTTFd value, the respective B10d value which most closely corresponds to the real application is converted into the following formula from the standard EN ISO 13849-1:

$MTTFd = B10d \, / \, (0,\!1 \, x \, annual \, switching \, cycles \, in \, the \, application)$

The annual switching cycles in the application must be determined by the user himself.

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A

2. Exemplary MTTF calculation of an electromechanical relay

B10 values available for the relay:

90,000 switching cycles at a DC13 load: 24 V DC / 1.5 A 250,000 switching cycles at an AC15 load: 230 V AC / 3 A 400,000 switching cycles at one AC1 load: 230 V AC / 6 A

Application:

Switching a solenoid valve: 230 V AC / 2 A

Switching frequency of the relay:

3x per minute

Operating hours of the plant:

250 days a year 22 hours a day

1) First, the appropriate B10 value of the relay for the application is selected.

Since a solenoid valve at 230 V AC is very similar to an AC15 load, this value is selected for the calculation:

250,000 switching cycles at an AC15 load: 230 V AC / 3 A

2) After that, the annual switching cycles of the relays must be determined. This is determined with the following formulas:

Formula signs:

 t_{zvklus} = Mean time between two consecutive cycles in seconds

 h_{00} = Average operating time in hours per day (0 - 24 hours)

 d_{op} = Average operating time in days per year (0 - 365 days)

 n_{op} = Average number of switching cycles per year

 t_{Zyklus} = 60 seconds / switching frequency of the relay per minute

 $t_{Zyklus} = 60$ seconds / 3 = 20 seconds

 $n_{op} = (d_{op} x h_{op} x 3600 s/h) / t$

 n_{00} = (250 days/year x 22 hours/day x 3600 seconds/hour) / 20 seconds

 $n_{on} = 990,000$ switching cycles/year)

3) Calculation of the MTTF

MTTF = B10 / (0.1 x Annual switching cycles in the application)

MTTF = 250,000 switching cycles / (0.1 x 990,000 switching cycles/year)

MTTF = 2.52 years

The MTTF for the sample relay is therefore 2.52 years.

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3. MTTF for solid-state relays

The MTTF value for solid-state relays is calculated from the failure rates of the individual electronic components, as they have no mechanical components that wear out due to mechanical abrasion or contact burn-off. The MTTF values of the Weidmüller solid-state relays can be found in the data sheet. The calculation was carried out in accordance with the standards SN 29500 and EN ISO 13849-1. The value refers to an ambient temperature of 40°C. When calculating the values for solid-state relays, the following things are not taken into account:

- Electrical connections and plug-in connections
- PCB (not included in the SN29500 standard)
- Soldering process due to quality control processes in manufacturing



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Universal range

Universal range	Overview	B.2
	TERMSERIES-compact – relay modules	B.4
	TERMSERIES-compact – with fuse carrier	B.18
	TERMSERIES-compact – relay modules for the railway industry	B.20
	TERMSERIES - relay modules	B.30
	TERMSERIES TIMER – timer function	B.74
	TERMSERIES FG – with forcibly guided contacts	B.76
	TERMSERIES – solid-state relays	B.78
	TERMSERIES – Cl.1 Div.2	B.92
	Accessories TERMSERIES-compact & TERMSERIES	B.96
	TERMSERIES Interface Adapter	B.104
	CUBESERIES - relay modules	B.110
	D-SERIES – relay modules	B.124
	MCZ SERIES - relay modules	B.184
	MCZ-SERIES – solid-state relays	B.192

Universal range

Relay modules and solid-state relays for every application

Machinery and plant engineering is full of challenges. One of these challenges is the selection of suitable relay products. A wide range of highly flexible modules are needed here that can satisfy a variety of different requirements.

As a full-range supplier in the field of relay modules, we provide you with a broad, varied and high-quality relay portfolio with products from the TERMSERIES-compact, TERMSERIES, CUBESERIES and D-SERIES. In addition, we offer KITs for signal isolation, amplification and multiplication. They are distinguished by particularly high reliability and durability and are available in various designs. In addition to our products, we offer you a wide range of comprehensive services and guidelines. This also includes our services for data support as well as for the digital availability of product data, with which we make your entire planning cycle easier.

Our relay modules are used in automation technology as well as in many other areas and industries for galvanic isolation. They are available with different types of contact such as NO contact, NC contact and CO contact and, due to their functional excellence, they provide measurable cost reductions for storage, installation and operation.

Solid-state relays

Our high-quality solid-state relays combine the highest standards with absolute quality. The extremely flexible portfolio includes a wide range of compact, durable, wear-free, silent and vibration-resistant products. For you this means: no mechanical wear, no error conditions and no noise pollution.

Electromechanical relays

Electromechanical relays are a versatile and cost-effective solution for a wide range of switching processes. They can be used for level and power adjustment and form interfaces between control, signalling or regulating equipment and the peripheral devices. However, due to the diversity of their industrial applications, the right relay must be selected for each specific application. In addition, electromechanical relays are subject to a certain amount of wear due to their design, which must also be taken into account when designing relay circuits.

Weidmüller ₹ 3043770000

Convenient for planning and documentation

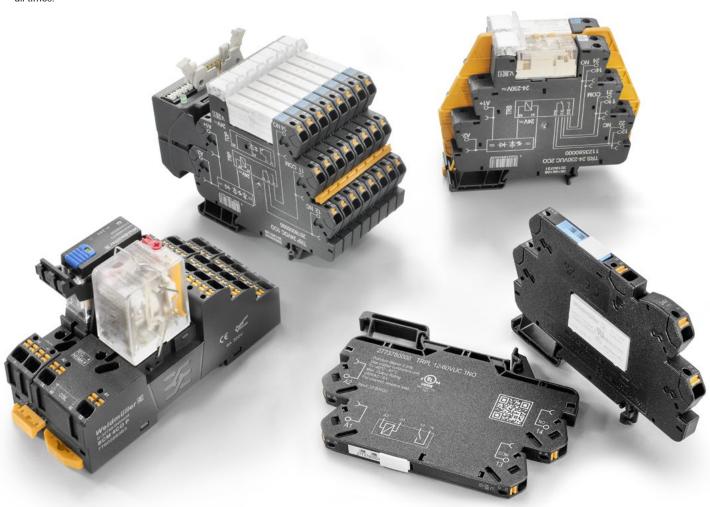
Thanks to the electronic catalogue, product data can be imported and exported to all common engineering tools such as EPLAN. It therefore also supports the use of digital twins and guarantees fast access to all item data at all times.

Compact and time-saving

The compact design of our relay modules saves a lot of space in the panel. The reduced wiring effort as well as optimal marking enable timesaving installation and maintenance.

Functional and economical

The high functional demands of our relay modules ensure measurable cost savings – through simplified storage, time-saving wiring and reliable operation, for example.

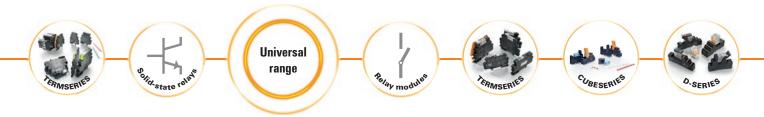


High quality and versatile

Our solid-state relays combine the latest standards with the highest quality. You benefit from a wide and flexible product range with maximum safety

Robust and reliable

Fail-safe, wear-free, low-noise and vibrationproof components ensure interference-free work processes and safeguard the availability of the plant.



TERMSERIES-compact

Universal relay with maximum vibration resistance

To achieve maximum machine and system availability, many relays must also function reliably in environments with strong vibrations. In addition, compact modules for flat control cabinets are required. TERMSERIES-compact fulfils both demands.

The new, ultra-compact complete modules round out the TERMSERIES family. Their relays are integral, which makes them particularly vibration-proof. Due to the slim and, above all, flat design, they can be installed anywhere. And since they have the same contours as the tried-and-tested TERMSERIES, all the accessories of the series can be used – for cross-connections, for example. In this way, comprehensive complete solutions can be realised with the 100 % function-tested relay modules.

4 **Weidmüller** ₹ 3043770000

High efficiency and user-friendliness

PUSH IN connection technology and coloured pushers make wiring 75 % faster and considerably safer. Coloured accents for input voltages, easy-to-read part numbers, and integrated test taps facilitate maintenance.

Universal applicability

Can be used in a wide range of applications thanks to different versions and a variety of input voltages. Multi-voltage input of the TERMSERIES with 24-230 V UC and 12-60 V UC available for the first time in an extremely compact design.



Digital provision of all data for WMC, Eplan, CAD, and tender texts according to E-Class and ETIM standards. Convenient data support via QR code on the side of the enclosure – with link to the data sheet. Support of digital twins.

Perfect completion of the TERMSERIES

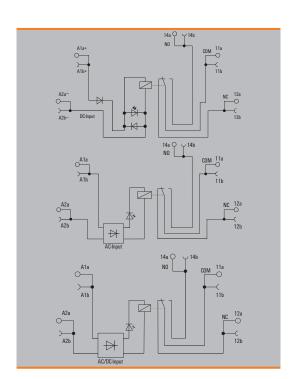
With its closed design and depth of only 63 mm, TERMSERIES-compact completes the proven TERMSERIES. Accessories that can be used in common, contour uniformity, mirror-symmetrical design, and continuous cross-connection channels enable highly flexible solutions.

For more information, visit our website www.weidmueller.com/termcompact

1 CO contact AC / DC / UC coil

- Ultra-compact 6.4 mm width
- AgNi contact
- PUSH IN connection



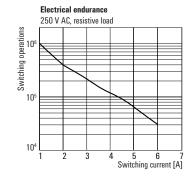


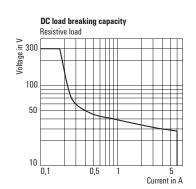
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, Tu = 40°C, without condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

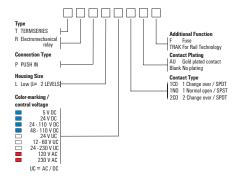
Applications





6 Weidmüller ₹ 3043770000

1 CO contact AC / DC / UC coil



Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating Status indicator Protective circuit

5 V DC	
5 V DC ± 20 %	
/ 34 mA	
170 mW	
Green LED	
Free-wheeling diode Reverse	

polarity protection

24 V DC
24 V DC ± 20 %
/ 11 mA
264 mW
Green LED
F

GIECH LLD	
Free-wheeling diode, Revers	;
polarity protection	

24 V UC
24 V UC ± 10 %
11.5 mA / 9.2 mA
280 mVA / 220 mW
Green LED
Rectifier

120 V AC
120 V AC ± 10 %
6.8 mA /
840 mVA
Green LED
Rectifier, RC element

230 V AC
230 V AC ± 10 %
7.1 mA /
1.63 VA
Green LED
Rectifier

Ordering data

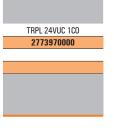
PUSH IN connection Type

Order No. Type Order No.

Note

TRPL 5VDC 1CO
2774030000

TRPL 24VDC 1CO	
2773890000	





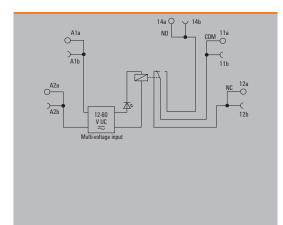
TRPL 230VAC 1C0
2773830000

1 CO contact

Multi-voltage input

- Ultra-compact 6.4 mm width
- AgNi contact
- PUSH IN connection
- Multi-voltage input: 24...230 V UC or 12...60 V UC in one module





Technical data

250 V AC / 6 A
250 V
20 A / 20 ms
1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
1 CO contact (AgNi)
5 x 10 ⁶ switching cycles
0.1 Hz
-40 °C60 °C
-40 °C85 °C
5-85% relative humidity, Tu = 40°C, without condensation
CE; cULus; UKCA
300 V
6 kV (1.2/50 μs)
2.5 kV _{eff}
4 kV _{eff} / 1 Min.
≥ 6 mm
III
2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

Ordering data

Control side

Power rating

Rated control voltage Rated current AC / DC

492 mVA @ 12 V AC, 612 mVA @ 60 V AC, 240 mW @ 12 V DC, 300 mW @ 60 V DC

Status indicator Protective circuit Approvals

12 - 60 V UC

12...60 V UC \pm 10 %41 mA @ 12 V AC, 10.2 mA @ 60 V AC / 20 mA @ 12 V DC, 5 mA @ 60 V DC

Green LED Rectifier CE; cULus; UKCA

24 - 230 V UC

24...230 V UC ± 10 % 15.6 mA @ 24 V AC, 1.9 mA @ 230 V AC / 6.8 mA @ 24 V DC, 0.76 mA @ 230 V DC

163 mW @ 24 V DC, 175 mW @ 230 V DC, 374 mVA @ 24 V AC, 437 mVA @ 230 V AC

Green LED Rectifier CE; cULus; UKCA

Ordering data

PUSH IN connection Type Order No.

Type Order No.

Note

TRPL 12-60VUC 1CO 2773770000

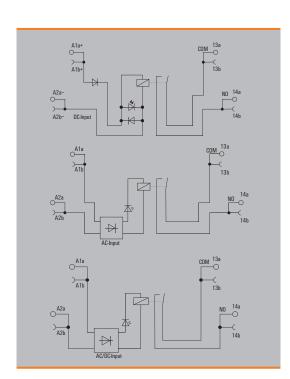
TRPL 24-230VUC 1CO
2773860000

Weidmüller 🏖 3043770000

1 NO contact AC / DC / UC coil

- Ultra-compact 6.4 mm width
- AgNi contact
- PUSH IN connection



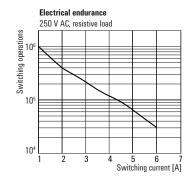


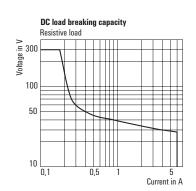
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 NO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, $Tu = 40^{\circ}C$, without condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

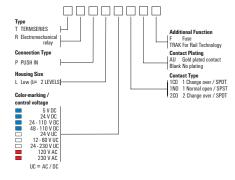
Applications





3.10 **Weidmüller ₹** 3043770000

1 NO contact AC / DC / UC coil



Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating Status indicator Protective circuit 5 V DC ± 20 %

5 V DC ± 20 %

/ 34 mA

170 mW

Green LED

Free-wheeling diode, Reverse

polarity protection

24 V DC ± 20 %

/ 11 mA

264 mW

Green LED

Free-wheeling diode, Reverse polarity protection

%

24 V UC ± 10 %
11.5 mA / 9.2 mA
280 mVA / 220 mW
Green LED
Rectifier

120 V AC = 10 %

120 V AC = 10 %

6.8 mA /

840 mVA

Green LED

Rectifier, RC element

230 V AC = 10 %

7.1 mA /

1.63 VA

Green LED

Rectifier

Ordering data

PUSH IN connection Ty

Type Order No. Type Order No.

Note

TRPL 5VDC 1NO **2774040000** TRPL 24VDC 1NO **2773920000**



TRPL 120VAC 1NO 2773810000

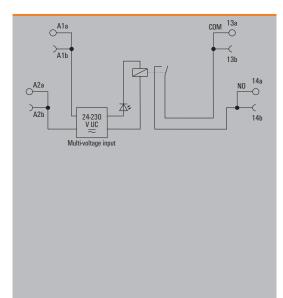
TRPL 230VAC 1NO 2773840000

1 NO contact

Multi-voltage input

- Ultra-compact 6.4 mm width
- AgNi contact
- PUSH IN connection
- Multi-voltage input: 24...230 V UC or 12...60 V UC in one module





Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 1 NO contacts, NO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, Tu = 40°C, without condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

Ordering data

Control side

Rated control voltage

Rated current AC / DC

Status indicator Protective circuit

Power rating

Approvals

12 - 60 V UC

12...60 V UC ± 10 %

41 mA @ 12 V AC, 10.2 mA @ 60 V AC / 20 mA @ 12 V DC, 5 mA @ 60 V DC

215 mW @ 12 V DC, 325 mW @ 60 V DC, 492 mVA @ 12 V AC, 612 mVA @ 60 V AC

CE; cULus; UKCA

Green LED Rectifier 24 - 230 V UC

24...230 V UC ± 10 %

15.6 mA @ 24 V AC, 1.9 mA @ 230 V AC / 6.8 mA @ 24 V DC, 0.76 mA @ 230 V DC

158 mW @ 24 V DC, 175 mW @ 230 V DC, 374 mVA @ 24 V AC, 437 mVA @ 230 V AC

Green LED Rectifier CE; cULus; UKCA

Ordering data

PUSH IN connection Type

Order No. Type Order No.

Note

TRPL 12-60VUC 1NO **2773780000**

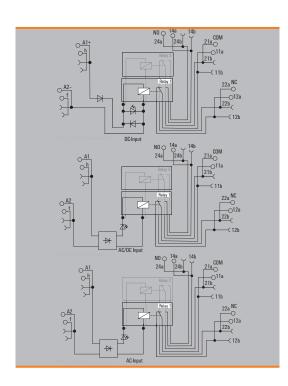
TRPL 24-230VUC 1NO 2773870000

12 Weidmüller ₹ 3043770000

2 CO contact AC / DC / UC coil

- Ultra-compact 12.8 mm width
- AgNi contact
 PUSH IN connection





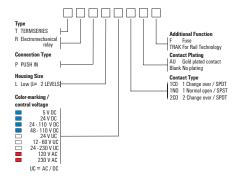
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA / 5 V
Contact type	2 x 1 CO Contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, Tu = 40°C, without condensation
Approvals	
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5
Depth x width x height	mm	62.5 / 12.8 / 89.4
Note		

B.14 Weidmüller 🏖 3043770000

2 CO contact AC / DC / UC coil



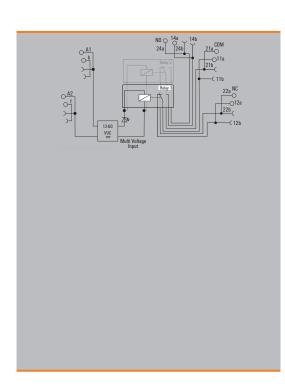
Ordering data	5 V DC	24 V DC	24 V UC	120 V AC	230 V AC
Control side					
Rated control voltage	4 V5 V6 V DC ± 20 %	21.6 V24 V26.4 V DC ± 20 %	21.6 V24 V26.4 V AC/DC ± 10 %	108 V120 V132 V AC ± 10 %	207 V230 V253 V AC ± 10 %
Rated current AC / DC	/ 65 mA	/ 18 mA	26 mA / 16 mA	9 mA /	9 mA /
Power rating	320 mW	430 mW	0.6 VA / 0.35 W	1.03 VA	1.93 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier	Rectifier

Ordering data					
Туре	TRPL 5VDC 2CO	TRPL 24VDC 2CO	TRPL 24VUC 2CO	TRPL 120VAC 2CO	TRPL 230VAC 2C0
Order No.	2774050000	2773960000	2773990000	2773820000	2773850000
Туре					
Order No.					
Note					

2 CO contact

Multi-voltage input

- Ultra-compact 12.8 mm width
- AgNi contact
- PUSH IN connection
- Multi-voltage input: 24...230 V UC or 12...60 V UC in one module



Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	2 x 1 CO Contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, Tu = 40°C, without condensation
Approvals	
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5
Depth x width x height	mm	62.5 / 12.8 / 89.4
Note		

Ordering data

Control side

Rated control voltage

Rated current AC / DC

Status indicator Protective circuit Approvals

Power rating

12 - 60 V UC

10.8...66 V AC/DC ± 10 % 57 mA @ 12V DC, 13 mA @ 60V DC

680 mVA @ 24V DC, 780 mVA @ 60V DC Green LED Rectifier

24 - 230 V UC

21.6...253 V AC/DC ± 10 % 19.3 mA @ 24 V AC, 2.5 mA @ 230 V AC / 9.6 mA @ 24V DC, 1.1 mA @ 230 V DC

230 mW @ 24 V DC, 253 mVA @ 230V DC Green LED Rectifier

Ordering data

PUSH IN connection Туре Order No.

Type Order No. Note

TRPL 12-60VUC 2CO 2773790000

TRPL 24-230VUC 2CO
2773880000

Weidmüller 🐔 3043770000

В

TERMSERIES-compact with fuse carrier

Combine switching and protection in one relay

Relays with integrated fuses are suitable for ensuring the reliable functioning of machines and systems and increasing their availability. In the event of faults, they switch off individual line paths to protect the rest of the system.

TERMSERIES-compact with fuse carrier enables simple and particularly efficient integration of fuses, as no additional terminal block with a fuse is required. This saves time during installation and space in the control cabinet. The fuse must be selected to match the connecting line, and the fuse can be changed while the module is installed. The complete module is 100 % function-tested and particularly vibration-resistant due to built-in relays.

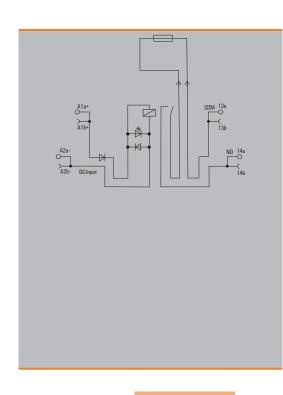
Easy adaptability



1 NO contact with fuse carrier DC coil

- Ultra-compact 6.4 mm width
- AgNi contact
- PUSH IN connection
- With fuse carrier





Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 NO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, Tu = 40°C, without condensation
Approvals	CE; cURus; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	90.9 / 6.4 / 89.4	
Note			

Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating

Status indicator Protective circuit

Approvals

24	V	DC	

24 V DC ± 20 %

/ 11 mA

264 mW

Green LED

Free-wheeling diode, Reverse polarity protection

CE; cURus; UKCA

Ordering data

PUSH IN connection Type Order No.

Order No. Type Order No.

Note

TRPL 24VDC 1N0 F
2773930000

TERMSERIES-compact TRAK: Highly vibration-resistant universal relays Switch reliably in extreme environments

Trains and railway lines are often subject to extreme conditions. Electronic components have to withstand strong vibrations, temperature fluctuations and the effects of the weather. In addition, there are high requirements in terms of passenger safety and fire protection.

The ultra-compact TERMSERIES-compact TRAK complete modules comply with the strict standards of the railway industry. Their relays are permanently installed, which makes them particularly vibration-proof. They operate reliably in a temperature range of -40 to +70 °C and are protected against condensation. Typical railway voltage fluctuations and interruptions are tolerated without functional failure. Thanks to their slim, flat design, they can be installed anywhere. And since their contours are identical to those of the TERMSERIES, accessories of the series can be used. This means that extremely robust solutions can be realised. This means that extremely robust solutions can be realised - even outside the railway industry.

TERMSERIES-compact TRAK

- Developed according to the strict railway standards EN 50155, EN 61373 and EN 45545-2
- Resistant to voltage and temperature fluctuations
- Insensitive to shocks and vibrations

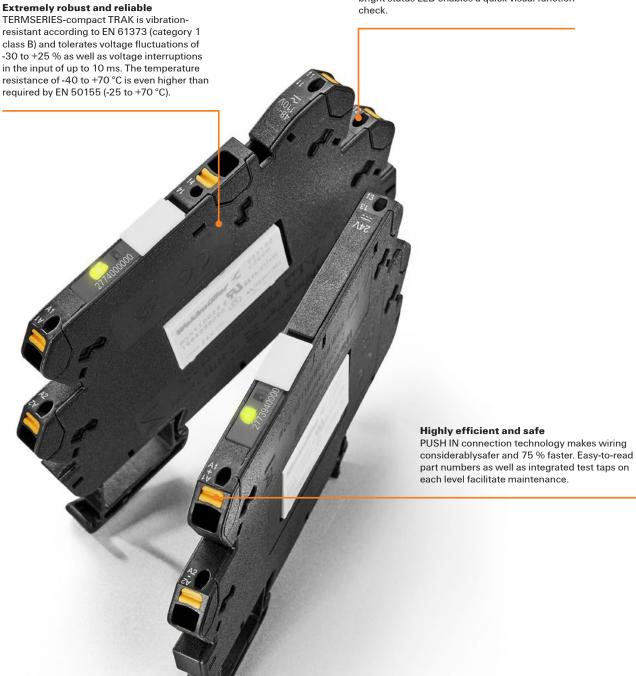


Weidmüller ₹ 3043770000

Universal range

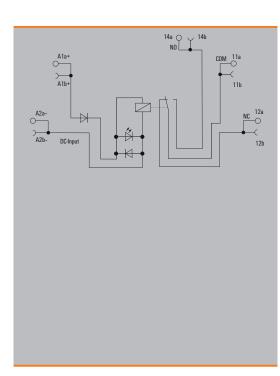
Particularly flexible and user-friendly

Continuous cross-connection channels enable flexible and particularly time-saving wiring. The bright status LED enables a quick visual function check.



TRAK with 1 CO contact



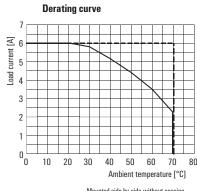


Technical data

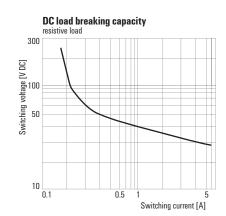
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgSnO2)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

Applications

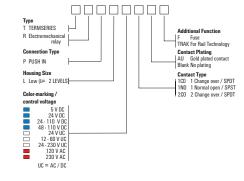


---- Mounted side by side without spacing
---- Mounted side by side with 20 mm spacing



.**22 Weidmüller** ₹ 3043770000

TRAK with 1 CO contact



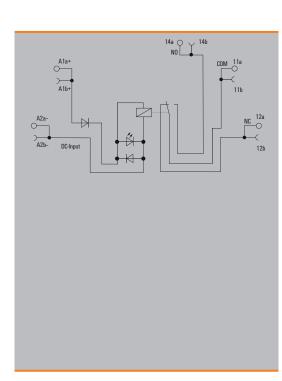
Ordering data	24 V DC
Control side	
Rated control voltage	24 V DC + 25 % / - 30 %
Rated current AC / DC	/ 16 mA
Power rating	384 mW
Status indicator	Green LED
Protective circuit	Suppressor diode, Free-whee- ling diode
Approvals	CE; UKCA

48-110 V DC
48110 V DC + 25 % / - 30 %
/ 2.4 mA @ 48 V DC, 3.2 mA @ 110 V DC
115 mW @ 48 V DC, 352 mW @ 110 V DC
Green LED
Suppressor diode, Free-whee- ling diode
CE; UKCA

Ordering data			
PUSH IN connection	Type	TRPL 24VDC 1CO TRAK	TRPL 48-110VDC 1CO TRAK
Ord	der No.	2773910000	2774010000
	Type		
Ord	der No.		
Note			

TRAK with 1 CO contact with hard gold-plated contacts



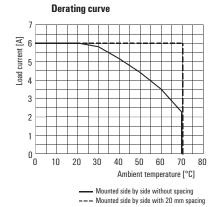


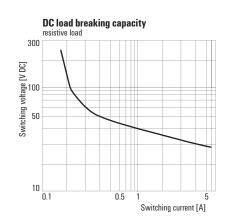
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	50 mW
Contact type	1 CO contact (Au (Gold), AgSnO2)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

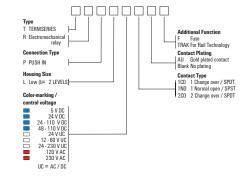
Applications





24 Weidmüller ₹ 3043770000

TRAK with 1 CO contact with hard gold-plated contacts



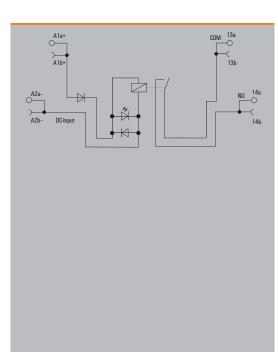
ordering data	24 V DC
Control side	
Rated control voltage	24 V DC + 25 % / - 30 %
lated current AC / DC	/ 16 mA
ower rating	384 mW
atus indicator	Green LED
rotective circuit	Free-wheeling diode, Suppressor diode
pprovals	CE; UKCA

48-110 V DC					
48110 V DC + 25 % / - 30 %					
/ 2.4 mA @ 48 V DC, 3.2 mA @ 110 V DC					
115 mW @ 48 V DC, 352 mW @ 110 V DC					
Green LED					
Suppressor diode, Free-whee- ling diode					
CE; UKCA					

Ordering data			
PUSH IN connection	Type Order No. Type Order No.	TRPL 24VDC 1CO AU TRAK 2773900000	TRPL 48-110VDC 1C0 AU TRAK 2774000000
Note			

TRAK with 1 NO contact



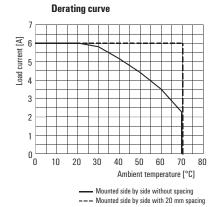


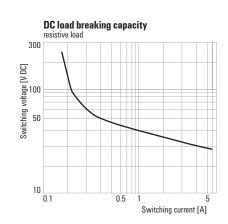
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 NO contact (AgSnO2)
Mechanical service life	10 x 10 ^e switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

Applications





26 Weidmüller ₹ 3043770000

P PUSH IN Housing Size
L Low (L= 2 LEVELS)

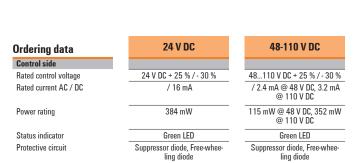
Color-marking /
control voltage
5 V DC
24 + 110 V DC
48 - 110 V DC
12 - 60 V UC
12 - 60 V UC
12 0 V AC
230 V AC
UC = AC / DC

Additional Function F Fuse TRAK For Rail Technology

Contact Type
1100 1 Change over / SPDT
1NO 1 Normal open / SPST
2C0 2 Change over / SPDT

TRAK with 1 NO contact

Approvals



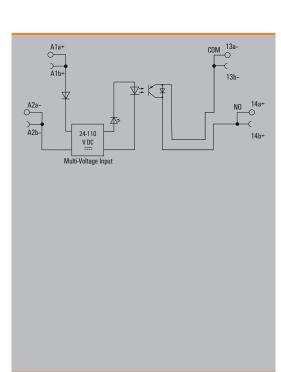
CE; UKCA

CE; UKCA

Ordering data					
PUSH IN connection	Type Order No. Type Order No.	TRI	PL 24VDC 1NO TRA 2773940000	AK	TRPL 48-110VDC 1NO TRAK 2774020000
Note					

TRAK-Version



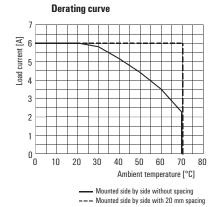


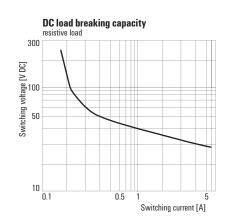
Technical data

Load side	
Rated switching voltage / Continuous current	5110 V DC / 250 mA
Max. switching voltage, AC	
Inrush current	3.4 mA @ 24 V DC, 11.4 mA @ 110 V DC
Min. switching power	
Contact type	NO contact
Mechanical service life	
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	5-85% relative humidity, $Tu = 40^{\circ}C$, without condensation
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	8 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	62.5 / 6.4 / 89.4	
Note			

Applications





Weidmüller ₹ 3043770000

TRAK-Version

 Ordering data
 24-110 V DC

 Control side
 24...110 V DC + 25 % / - 30 %

 Rated control voltage
 24...110 V DC + 25 % / - 30 %

 Rated current AC / DC
 / 1.9 mA @ 24 V DC, 3.2 mA @ 110 V DC

 Power rating
 46 mW @ 24 V DC, 352 mW @ 110 V DC

 Status indicator
 Green LED

 Protective circuit
 Reverse polarity protection

 Approvals
 CE; UKCA

PUSH IN connection Type Order No. Type Order No. Type Order No.

TOPL 24-110VDC 5-110VDC0.25A TRAK
2773600000

TERMSERIES

The all-rounders in a terminal block format

TERMSERIES relay modules and solid-state relays are real all-rounders in the extensive Klippon® Relay portfolio. The pluggable modules are available in many variants and can be exchanged quickly and easily – they are ideal for use in modular systems. Their large illuminated ejection lever also serves as a status LED with integrated holder for markers, making maintenance easier. TERMSERIES products are particularly space-saving and are available in widths from 6.4 mm. Besides their versatility, they convince through their extensive accessories and unlimited cross-connection possibilities.

TERMSERIES products are available for special loads, for C1D2 applications, with timer functions or with positively-driven contacts. Special variants for connecting actuators – e.g. solenoid valves or contactors – are also available. The range of applications is extended by various connection systems such as PUSH IN and screw connection. And with the unique multi-voltage input, you can optimise your wiring and simplify your retrofitting processes. All products are of course approved according to the current international standards such as cULus and DNV.

Our TERMSERIES variants for special loads are assembled with optimised contacts. Their arrangement and material selection were adapted to suit the high loads in the industrial sector. Whether in machinery and plant engineering, robotics, wind energy or shipbuilding: With TERMSERIES products you can reliably and permanently switch industrial loads and reduce your operating costs.

Weidmüller ₹ 3043770000

Space-saving design

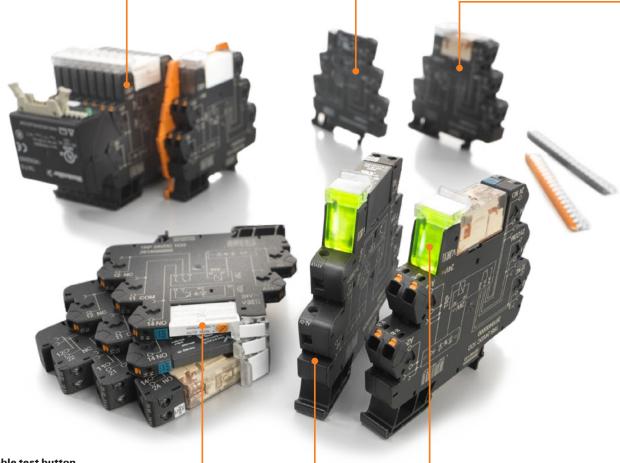
The slim design with compact widths from 6.4 mm provides noticeable space savings in the panel.

Unique multi-voltage input

The input allows controlling with voltages from 24 to 230 V AC/DC in one device. This reduces the number of required part numbers and makes retrofitting easier.

Ergonomic design

The high-quality design without sharp edges reduces the risk of injury. All markings are readable, no matter which position the components are installed in, which makes work easier.



Lockable test button

The test button enables easy simulation of digital input and output signals. For protection against maloperation, it can only be locked with a screwdriver.

Multi-functional ejection lever

The ejection lever allows the plugged-in relays to be replaced easily. It is also used to hold markers and has a status LED that illuminates the entire ejector.

Continuous cross-connectors

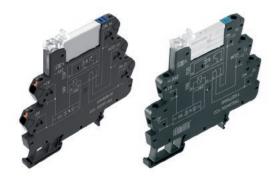
The continuous cross-connection channels increase flexibility and save wiring time at every level.

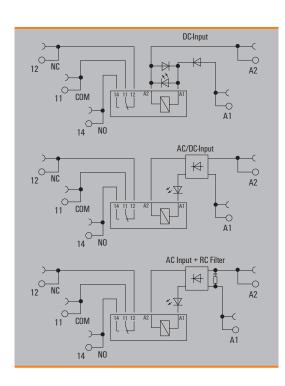
> For more information, visit our website

www.weidmueller.com/term

1 CO contact AC/DC/UC coil

- Space-saving, only 6.4 mm wide
- AgNi contact
- PUSH IN and screw connection





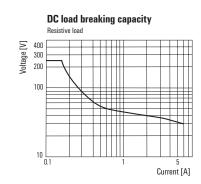
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page. n be found at eshop.weidmueller.com

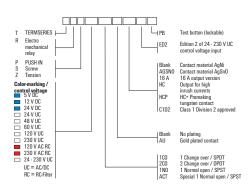
Applications

Electrical endurance 250 V AC resistive load 107 108 109 104 1 2 3 4 5 6 Switching current (A)



3.32 **Weidmüller** ₹ 3043770000

1 CO contact AC/DC/UC coil



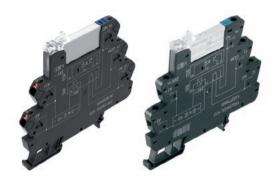
Ordering data Control side	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
Power rating	170 mW	210 mW	280 mW	270 mVA / 154 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

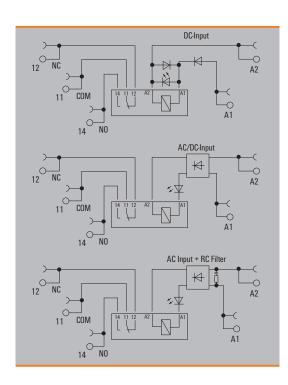
Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO	TRP 12VDC 1CO	TRP 24VDC 1CO	TRP 24VUC 1CO	TRP 48VUC 1CO
Order No.	2614830000	2618180000	2618000000	2618220000	2618240000
Screw connection Type	TRS 5VDC 1CO	TRS 12VDC 1CO	TRS 24VDC 1CO	TRS 24VUC 1CO	TRS 48VUC 1CO
Order No.	1122740000	1122750000	1122770000	1122780000	1122790000
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Ordering data Control side	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
Control side Rated control voltage					
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 % 8.5 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO	TRP 120VUC 1CO	TRP 230VUC 1C0	TRP 120VAC RC 1CO	TRP 230VAC RC 1CO
Order No.	2618140000	2618010000	2618050000	2618150000	2618200000
Screw connection Type	TRS 60VUC 1CO	TRS 120VUC 1CO	TRS 230VUC 1C0	TRS 120VAC RC 1CO	TRS 230VAC RC 1CO
Order No.	1122800000	1122810000	1122820000	1122830000	1122840000
Note					

1 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 6.4 mm modular width
- AgNi contact with gold plating
- PUSH IN and screw connection



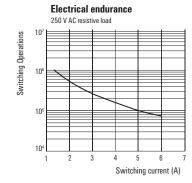


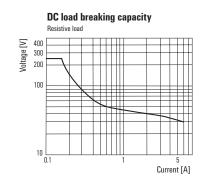
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgNi gold-plated)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page		

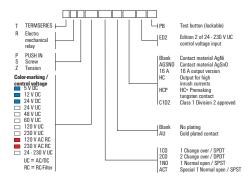
Applications





3.34 Weidmüller 3.34 3.043770000

1 CO contact with hard gold-plated contacts AC/DC/UC coil



Ordering data Control side	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
Power rating Status indicator	170 mW Green LED	210 mW Green LED	280 mW Green LED	270 mVA / 154 mW Green LED	340 mW / 0.4 VA Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO AU	TRP 12VDC 1CO AU	TRP 24VDC 1CO AU	TRP 24VUC 1CO AU	TRP 48VUC 1CO AU
PUSH IN connection Type Order No.	2618060000	2618120000	2618110000	2618160000	2618170000
	TRS 5VDC 1CO AU	TRS 12VDC 1C0 AU	TRS 24VDC 1CO AU	TRS 24VUC 1CO AU	TRS 48VUC 1CO AU
Screw connection Type Order No.					
Note	1122980000	1122990000	1123000000	1123010000	1123020000
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC = 10 %	120 V UC 120 V UC ± 10 %	230 V UC = 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
Ordering data Control side Rated control voltage Rated current AC / DC					
Control side Rated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 %

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO AU	TRP 120VUC 1CO AU	TRP 230VUC 1CO AU	TRP 120VAC RC 1CO AU	TRP 230VAC RC 1CO AU
Order No.	2618070000	2618080000	2618210000	2618030000	2617950000
Screw connection Type	TRS 60VUC 1CO AU	TRS 120VUC 1CO AU	TRS 230VUC 1CO AU	TRS 120VAC RC 1CO AU	TRS 230VAC RC 1CO AU
Order No.	1123030000	1123040000	1123050000	1123070000	1123080000
Note					

1 CO contact

multi-voltage input

- Space-saving: width only 6.4 mm
- AgNi contact
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



AC/DC Input AC/DC Input AC/DC Input A2 A1 DC load breaking capacity Resistive load Electrical endurance ZSO V AC resistive load Electrical endurance To V AC resistive load To V AC resistive load To V AC resistive load To V AC resistive load

Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page Further approvals and technical data can be found at eshop.weidmueller.com		refer to the TERMSERIES Accessories page. he found at eshop.weidmueller.com

Ordering data

Control side

Rated control voltage

24...230 V UC ± 10 %

24 V - 230 V UC

Rated current AC / DC

19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC

Status indicator

tor Green LED cuit Rectifier

Protective circuit

Approvals

CE; cULus; DETNORVER; UKCA

Ordering	data

PUSH IN connection Type Order No.

Screw connection Type Order No.

Note

TRP 24-230VUC 1C0 ED2

2663010000

TRS 24-230VUC 1C0 ED2

2662850000

B.36 Weidmüller ₹ 3043770000

1 CO contact with hard gold-plated contacts multi-voltage input

- Space saving, just 6.4 mm modular width
- AgNi contact with gold plating
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



AC/DC Input 12 | NC

Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgNi gold-plated)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessor Further a	ies and dimensional drawings: pprovals and technical data car	refer to the TERMSERIES Accessories page. he found at eshop.weidmueller.com

Ordering data

Control side

Rated control voltage

24...230 V UC ± 10 %

24 V - 230 V UC

Rated current AC / DC

19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC

Status indicator

Green LED Rectifier

Protective circuit

Approvals

CE; cULus; DETNORVER; UKCA

Ordering data

PUSH IN connection Туре Order No.

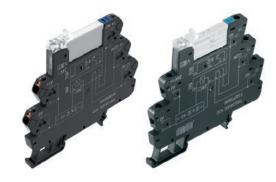
Screw connection Type Order No.

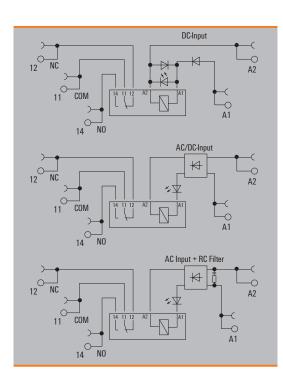
Note

TRP 24-230VUC 1CO AU ED2 2663020000 TRS 24-230VUC 1CO AU ED2 2662860000

1 CO contact (AgSnO) AC / DC / UC coil

- Space-saving, only 6.4 mm wide
- AgSnO contact
- For capacitive and inductive loads
- $\bullet\,$ PUSH IN and screw connection



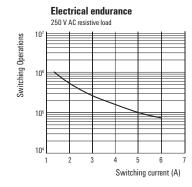


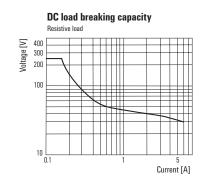
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	100 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page.

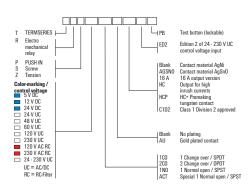
Applications





3.38 Weidmüller ₹ 3043770000

1 CO contact (AgSnO) AC / DC / UC coil



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
Power rating Status indicator Protective circuit	170 mW Green LED Free-wheeling diode, Reverse polarity protection	210 mW Green LED Free-wheeling diode, Reverse polarity protection	280 mW Green LED Free-wheeling diode, Reverse polarity protection	270 mVA / 154 mW Green LED Rectifier	340 mW / 0.4 VA Green LED Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO AGSNO	TRP 12VDC 1CO AGSNO	TRP 24VDC 1CO AGSNO	TRP 24VUC 1CO AGSNO	TRP 48VUC 1CO AGSN
Order No.	2614820000	2617860000	2618020000	2617880000	2617890000
Screw connection Type	TRS 5VDC 1CO AGSNO	TRS 12VDC 1CO AGSNO	TRS 24VDC 1CO AGSNO	TRS 24VUC 1CO AGSNO	TRS 48VUC 1CO AGSI
Order No.	2152860000	2152880000	1984540000	2152940000	2153060000
rdering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC ± 10 %	120 V UC 120 V UC ± 10 %	230 V UC 230 V UC ± 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
Control side Rated control voltage					
Control side Nated control voltage Nated current AC / DC	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 % 8.8 mA /

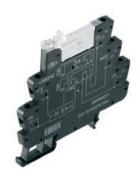
Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO AGSNO	TRP 120VUC 1CO AGSNO	TRP 230VUC 1CO AGSNO	TRP 120VAC RC 1CO AGSNO	TRP 230VAC RC 1CO AGSNO
Order No.	2617870000	2617900000	2617830000	2617840000	2617850000
Screw connection Type	TRS 60VUC 1CO AGSNO	TRS 120VUC 1CO AGSNO	TRS 230VUC 1CO AGSNO	TRS 120VAC RC 1CO AGSNO	TRS 230VAC RC 1CO AGSNO
Order No.	2153550000	2153570000	2153590000	2152900000	2152920000
Note					

1 CO contact (AgSnO)

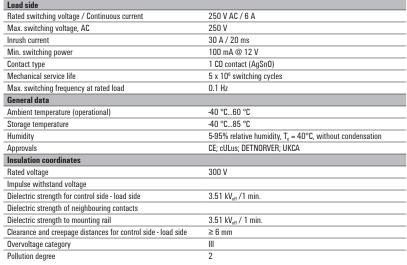
Multi-voltage input

- . Space-saving, only 6.4 mm wide
- AgSnO contact
- For capacitive and inductive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data Load side



Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page. I be found at eshop.weidmueller.com

AC/DC-Input H DC load breaking capacity Electrical endurance 250 V AC resistive load

Ordering data

Control side

Rated control voltage

Rated current AC / DC

19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC

24 V - 230 V UC

24...230 V UC ± 10 %

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC

Status indicator

Protective circuit

Green LED Rectifier

Approvals

CE; cULus; DETNORVER; UKCA

Ordering data

PUSH IN connection Type Order No.

Type

Screw connection Order No.

Note

TRP 24-230VUC 1CO AGSNO ED2 2663160000 TRS 24-230VUC 1CO AGSNO ED2 2663000000

Weidmüller 🏖 3043770000

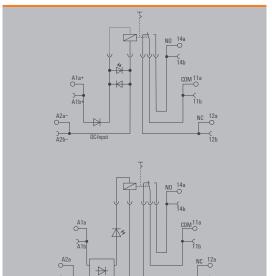
1 CO AgSnO

with test button

- Space-saving, only 6.4 mm wide
 AgSn0 contact
 For capacitive and inductive loads
 PUSH IN and screw connection
- With test button







Technical data

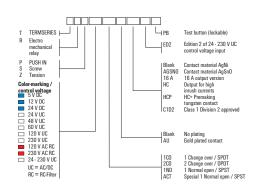
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	100 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			

B.42 Weidmüller 🏖 3043770000

П

1 CO AgSnO with test button



Ordering data	24 V DC	24 V UC	
Control side			
Rated control voltage	24 V DC ± 20 %	24 V UC ± 10 %	
Rated current AC / DC	/ 11.5 mA	11.7 mA / 6.4 mA	
Power rating	280 mW	270 mVA / 154 mW	
Status indicator	Green LED	Green LED	
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier	

Ordering data			
PUSH IN connection	Туре	TRP 24VDC 1CO AGSNO PB	TRP 24VUC 1CO AGSNO PI
	Order No.	2855800000	2855810000
Screw connection	Туре	TRS 24VDC 1CO AGSNO PB	TRS 24VUC 1CO AGSNO PI
	Order No.	2855870000	2855890000
Note			
		<u> </u>	

1 CO AgSnO

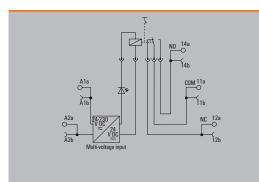
with test button

Multi-voltage input

- Space-saving, only 6.4 mm wide
- AgSnO contact
- For capacitive and inductive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module
- With test button







Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	100 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			

Ordering data

Control side

Rated control voltage

24...230 V UC ± 10 %

24 - 230 V UC

Rated current AC / DC

19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC

Status indicator

Green LED

Protective circuit

Rectifier

Approvals

CE; cULus

Ordering data

PUSH IN connection Туре Order No.

Screw connection Type Order No.

Note

TRP 24-230VUC 1CO AGSNO ED2 PB TRS 24-230VUC 1CO AGSNO ED2 PB 2855930000

Weidmüller 🐔 3043770000

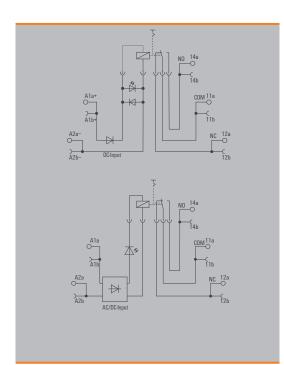
1 CO AgSnO with hard gold-plated contacts with test button

- Space-saving, only 6.4 mm wide
 AgSnO contact with hard gold-plated contact
 For capacitive and inductive loads
 PUSH IN and screw connection

- With test button







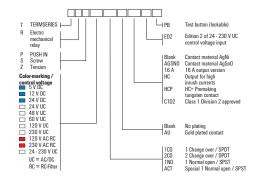
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgSnO gold-plated)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			

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1 CO AgSnO with hard gold-plated contacts with test button



Ordering data	24 V DC		24 V UC	
Control side				
Rated control voltage	24 V DC ± 20 %		24 V UC ± 10 %	
Rated current AC / DC	/ 11.5 mA	_	11.7 mA / 6.4 mA	
Power rating	280 mW	_	270 mVA / 154 mW	
Status indicator	Green LED	_	Green LED	
Protective circuit	Free-wheeling diode, Reverse polarity protection	_	Rectifier	

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	Order No.
Note	

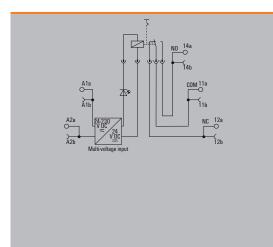
1 CO AgSnO with hard gold-plated contacts with test button

Multi-voltage input

- Space-saving, only 6.4 mm wide
- AgSnO contact with hard gold-plated contact
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module
- With test button







Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgSnO gold-plated)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			

Ordering data 24 - 230 V UC Control side 24...230 V UC ± 10 % Rated control voltage 24...230 V UC ± 10 % Rated current AC / DC 19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC

Power rating 265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC

Status indicator Green LED
Protective circuit Rectifier

Approvals CE; cULus

Ordering data	
PUSH IN connection	Type
	Order No.
Screw connection	Type
	Order No.
Note	

RP 24-230VUC 1CO AGSNO AU ED2	PB
2855900000	
RS 24-230VUC 1CO AGSNO AU ED2	PB
2855920000	

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1 CO AgNi

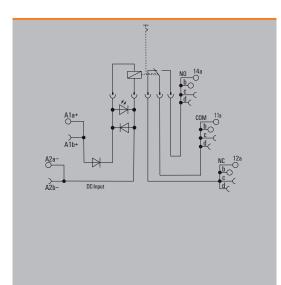
with test button

- Space-saving, only 12.8 mm wide
 AgNi contact
 For capacitive and inductive loads
 PUSH IN and screw connection

- With test button







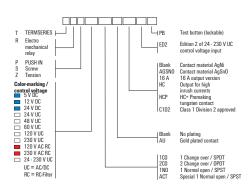
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	
Contact type	1 CO contact (AgNi)
Mechanical service life	30 x 10 ^e switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.4	97.5 / 12.8 / 89.6
Note			

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1 CO AgNi with test button



Ordering data	24 V DC	24 V UC	120 V UC	230 V UC
Control side				
Rated control voltage	19.2 V24 V28.8 V DC ± 20 %	24 V UC ± 10 %	108 V120 V132 V UC ± 10 %	218.5 V230 V241.5 V UC ± 5 %
Rated current AC / DC	/ 20.5 mA	/ 16.7 mA	/ 4.3 mA	/ 4.3 mA
Power rating	495 mW	430 mVA @ 24 V AC	480 mW	
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection			

TRP 24VDC 1CO 16A PB	TRP 24VUC 1CO 16A PB	TRP 120VUC 1CO 16A PB	TRP 230VUC 1CO 16A PB
2988280000	2988300000	2988310000	2988320000
TRS 24VDC 1CO 16A PB	TRS 24VUC 1CO 16A PB	TRS 120VUC 1CO 16A PB	TRS 230VUC 1CO 16A PB
2988390000	2988400000	2988410000	2988420000
	2988280000 TRS 24VDC 1CO 16A PB	2988280000 2988300000 TRS 24VDC 1C0 16A PB TRS 24VUC 1C0 16A PB	2988280000 2988300000 2988310000 TRS 24VDC 1CO 16A PB TRS 24VUC 1CO 16A PB TRS 120VUC 1CO 16A PB

1 CO AgNi

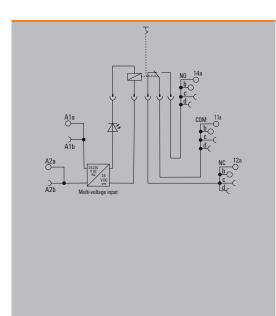
with test button

Multi-voltage input

- Space-saving, only 12.8 mm wide
- AgNi contact
- For capacitive and inductive loads
- PUSH IN and screw connection
 Multi-voltage input: 24...230 V UC in one module
- With test button







Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	100 mA @ 10 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.4	97.5 / 12.8 / 89.6
Note			

Ordering data	24 - 230 V UC
Control side	
Rated control voltage	21.6253 V UC ± 10 %
Rated current AC / DC	/ 16.7 mA
Power rating	0.82 W
Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection
Approvals	CE; cULus

Ordering data		
PUSH IN connection	Туре	TR
	Order No.	
Screw connection	Туре	TR
	Order No.	
Note		

RP	24-2	30VU	С	1CO	16A	ED2	РΒ
		2988	33	300	00		
RS	24-2	30VU	C	1CO	16A	ED2	РΒ
		2988	34	300	00		

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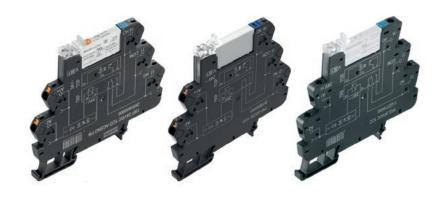
1 NO contact (actuator)

- Space-saving, only 6.4 mm wide
 AgNi contact
 PUSH IN and screw connection

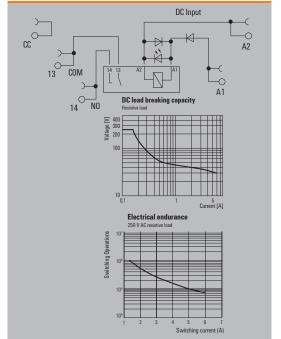
- 24 V DC actuator version:

Bridgeable, potential-free connection in the output (DC)

• Optional with test button



Technical data



Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 NO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page.

Ordering data	24 V DC ACT
Control side	
Rated control voltage	24 V DC ± 20 %
Rated current AC / DC	/ 11.5 mA
Power rating	280 mW
Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection

24VDC ACT PB
24 V DC ± 20 %
/ 11.5 mA
280 mW
Green LED
Free-wheeling diode, Reverse polarity protection

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	Order No.
Note	

TRP 24VDC ACT
2618230000
TRS 24VDC ACT
1381900000

TRP 24VDC ACT PB
2855840000
TRS 24VDC ACT PB
2855850000

Weidmüller 🏖 3043770000

B

1 NO contact (actuator) - wiring optimization

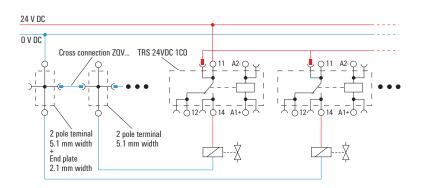
Space and time optimized wiring of actuators

The lower the wiring effort, the higher the cost-effectiveness. With TERMSERIES actuator variants, supply and return wire for the load can be connected directly to the relay module. This eliminates the need for additional terminal blocks and significantly reduces wiring time. In addition, TERMSERIES interface adapters and cross-connectors ensure efficient wiring by eliminating the need for time-consuming and costly single-wire wiring.

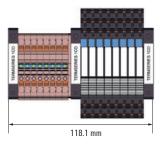
Space requirement for an 8-channel system with a standard TERMSERIES1CO relay

Example of output wiring to show the difference in 8 loads to be wired:

Result width = 8 x 5.1 mm (2-pole terminal block) + 1 x 2.1 mm (end plate) + 8 x 6.4 mm (TRP 24VDC 1CO) + 3 x 8.0 mm (end bracket) = 118.1 mm



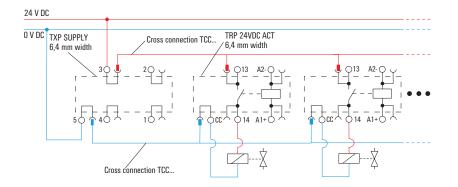
Space requirement top view:



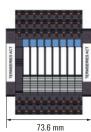
Space requirement for an 8-channel system with TERMSERIES ACT version relays and supply terminals

Example of output wiring to show the difference in 8 loads to be wired:

Result width = 1 x 6.4 mm (TRP SUPPLY) + 8 x 6.4 mm (TRP 24VDC ACT) + 2 x 8.0 mm (end bracket) = 73.6 mm



Space requirement top view:

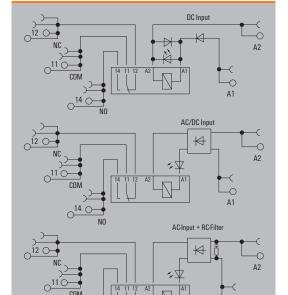


1 CO contact AC / DC / UC coil

- Space-saving, 12.8 mm wide
- 16 A AgNi contact
- Internal cross-connection of the output terminals
- PUSH IN and screw connection





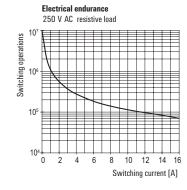


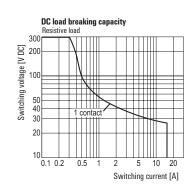
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	10 mA @ 10 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.2 kV _{eff} / 5 s
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page. be found at eshop.weidmueller.com

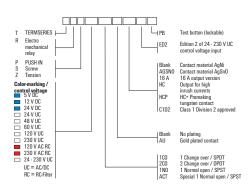
Applications





3.56 Weidmüller ₹ 3043770000

1 CO contact AC / DC / UC coil



Ordering data Control side	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 70 mA	/ 33.3 mA	/ 21 mA	16 mA / 14 mA	9 mA / 7 mA
Power rating	400 mW	420 mW	530 mW	390 mVA / 350 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO 16A	TRP 12VDC 1CO 16A	TRP 24VDC 1CO 16A	TRP 24VUC 1CO 16A	TRP 48VUC 1CO 16A
Order No.	2618130000	2618040000	2618100000	2617910000	2617960000
Screw connection Type	TRS 5VDC 1CO 16A	TRS 12VDC 1CO 16A	TRS 24VDC 1CO 16A	TRS 24VUC 1CO 16A	TRS 48VUC 1CO 16A
Order No.	1479650000	1479670000	1479680000	1479690000	1479700000
Note					
	201110		222 1112	420,440,70	200 V 40 20
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC = 10 %	120 V UC ± 10 %	230 V UC = 5 %	120 V AC RC	230 V AC RC 230 V AC ± 5 %
Control side Rated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %
Control side Rated control voltage					
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %
Control side	60 V UC ± 10 % 8 mA / 6.1 mA	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO 16A	TRP 120VUC 1CO 16A	TRP 230VUC 1CO 16A	TRP 120VAC RC 1CO 16A	TRP 230VAC RC 1CO 16A
Order No.	2617970000	2618280000	2618260000	2618270000	2618190000
Screw connection Type	TRS 60VUC 1CO 16A	TRS 120VUC 1CO 16A	TRS 230VUC 1CO 16A	TRS 120VAC RC 1CO 16A	TRS 230VAC RC 1CO 16A
Order No.	1479710000	1479730000	1479740000	1479750000	1479760000
Note					

1 CO contact

Variable-voltage input

- Space-saving, 12.8 mm wide16 A AgNi contact
- Internal cross-connection of the output terminals
 PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	10 mA @ 10 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			fer to the TERMSERIES Accessories page. De found at eshop.weidmueller.com

AC/DC Input \forall DC load breaking capacity Switching current [A] Electrical endurance

Ordering data	24 V - 230 V UC
Control side	
Rated control voltage	24230 V UC ± 10 %
Rated current AC / DC	23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC
Power rating	540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC
Status indicator	Green LED
Protective circuit	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA

Ordering data		
PUSH IN connection	Туре	
	Order No.	
Screw connection	Type	
	Order No.	
Note		

TRP 24-230VUC 1CO 16A ED2
2663120000
TRS 24-230VUC 1CO 16A ED2
2662960000

Weidmüller 🏖 3043770000

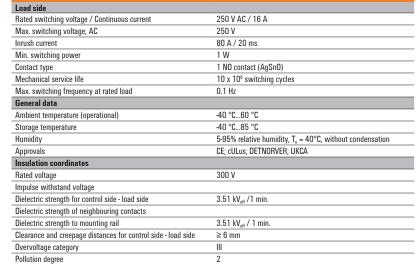
1 NO contact, inrush power HC

- Space-saving, 12.8 mm wide
- 16 A AgSnO contact
- Internal cross-connection of the output terminals
- Especially for capacitive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data



Dimensions		PUSH IN	Screw connection	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.14 / 2.5 1.5 / 0.14 / 2.5			
Depth x width x height	mm 87.8 / 12.8 / 89.4 87.8 / 12.8 / 89.6			
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

DC Input NO AC/DC Input A2 A2 DC load breaking capacity Resistive load DC load breaking capacity Resistive load Switching current [A]

Ordering data	24 V DC	24 - 230 V UC
Control side		
Rated control voltage	24 V DC ± 20 %	24230 V UC ± 10 %
Rated current AC / DC	/ 22.0 mA	23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC
Power rating	530 mW	540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC
Status indicator	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA	CE; cULus; DETNORVER; UKCA

TRP 24VDC 1NO HC	TRP 24-230VUC 1NO HC ED2
2618090000	2663130000
TRS 24VDC 1NO HC	TRS 24-230VUC 1NO HC ED2
1479780000	2662970000
	2618090000 TRS 24VDC 1NO HC

B.60 Weidmüller ₹ 3043770000

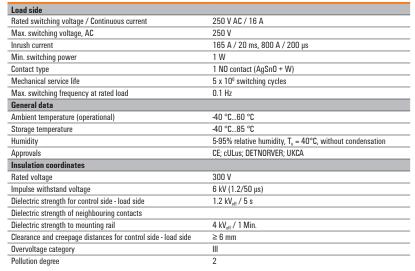
1 NO contact, inrush power HCP

- Space-saving, only 12.8 mm wide
- 16 A AgSnO contact + leading tungsten contact
- Internal cross-connection of the output terminals
- Especially for capacitive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data



Dimensions		PUSH IN	Screw connection	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.14 / 2.5 1.5 / 0.14 / 2.5			
Depth x width x height	mm 87.8 / 12.8 / 89.4 87.8 / 12.8 / 89.6			
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

DC Input A2 NO AC/DC Input A2 DC load breaking capacity Resistive load Separative load Separative load Switching current [A]

Ordering data	24 V DC	24 V - 230 V UC
Control side		
Rated control voltage	24 V DC ± 20 %	24230 V UC ± 10 %
Rated current AC / DC	/ 22.0 mA	23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC
Power rating	530 mW	540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC
Status indicator	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA	CE; cULus; DETNORVER; UKCA

Ordering data PUSH IN connection Type TRP 24VDC 1NO HCP TRP 24-230VUC 1NO E Order No. 2617930000 266314000 Screw connection Type TRS 24VDC 1NO HCP TRS 24-230VUC 1NO HCP Order No. 1479810000 266298000	
Order No. 2617930000 266314000 Screw connection Type TRS 24VDC 1NO HCP TRS 24-230VUC 1NO Order No. 1479810000 266298000	
Screw connection Type TRS 24VDC 1N0 HCP TRS 24-230VUC 1N0 Order No. 1479810000 266298000	HCP ED2
Order No. 1479810000 266298000	0
1170010000	HCP ED2
Media	0
Note	

2 CO contacts AC/DC/UC coil

- Space saving, just 12.8 mm modular width
- AgNi contact
- PUSH IN and screw connection

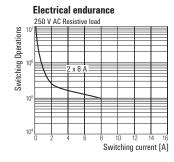


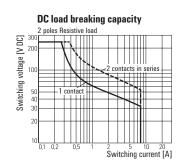
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Contact type	2 CO contact (AgNi)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection		
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.14 / 2.5 1.5 / 0.14 / 2.5				
Depth x width x height	mm 87.8 / 12.8 / 89.4 87.8 / 12.8 / 89.6				
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com			

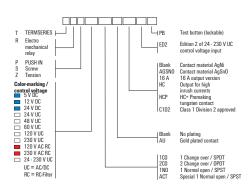
Applications





.**62 Weidmüller ₹** 3043770000

2 CO contacts AC/DC/UC coil



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 70 mA	/ 33 mA	/ 20.5 mA	16 mA / 14 mA	9 mA / 7 mA
Power rating	400 mW	400 mW	495 mW	390 mVA / 350 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 2CO	TRP 12VDC 2CO	TRP 24VDC 2CO	TRP 24VUC 2CO	TRP 48VUC 2CO
Order No.	2614840000	2618550000	2618400000	2618320000	2618520000
Screw connection Type	TRS 5VDC 2CO	TRS 12VDC 2C0	TRS 24VDC 2C0	TRS 24VUC 2CO	TRS 48VUC 2CO
Order No.	1123470000	1123480000	1123490000	1123500000	1123510000
Note					
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC = 5 %	120 V AC RC	230 V AC RC
Control side					
Control side Rated control voltage					
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 %	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 %
Control side Rated control voltage Rated current AC / DC Power rating	60 V UC ± 10 % 8.3 mA / 6.0 mA 360 mW, 500 mVA	120 V UC ± 10 % 3.5 mA / 3.5 mA 420 mVA / 420 mW	230 V UC ± 5 % 5.5 mA / 4.4 mA 1 W, 1.2 VA	120 V AC ± 10 % 5.5 mA / 0.6 VA	230 V AC ± 5 % 8.8 mA / 2.1 VA
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 %	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 %

Ordering data					
PUSH IN connection Type	TRP 60VUC 2CO	TRP 120VUC 2C0	TRP 230VUC 2C0	TRP 120VAC RC 2CO	TRP 230VAC RC 2C0
Order No.	2618290000	2618570000	2618440000	2618470000	2618330000
Screw connection Type	TRS 60VUC 2CO	TRS 120VUC 2C0	TRS 230VUC 2C0	TRS 120VAC RC 2C0	TRS 230VAC RC 2CO
Order No.	1123520000	1123530000	1123540000	1123550000	1123570000
Note					

2 CO contacts

multi-voltage input

- Space saving, just 12.8 mm modular width
- AgNi contact
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



AC/DC Input \forall 240 140 NO

Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Contact type	2 CO contact (AgNi)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

Ordering data

Control side

Rated control voltage

Rated current AC / DC

23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC

24 V - 230 V UC

24...230 V UC ± 10 %

Power rating

540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC

Status indicator

Green LED Protective circuit

Approvals

Rectifier CE; cULus; DETNORVER; UKCA

Ordering	data
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PUSH IN connection Туре Order No.

Screw connection Type Order No.

Note

TRP 24-230VUC 2C0 ED2 2663040000 TRS 24-230VUC 2CO ED2 2662880000

Weidmüller 🐔 3043770000

2 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 12.8 mm modular width
- AgNi contact with gold plating
- PUSH IN and screw connection

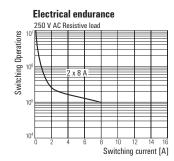


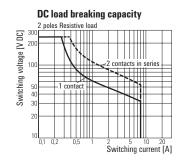
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 1 V
Contact type	2 CO contact (AgNi gold-plated)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page.

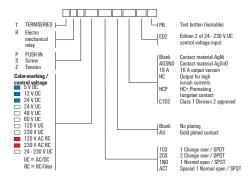
Applications





Weidmüller ₹ 3043770000

2 CO contact with hard gold-plated contacts AC/DC/UC coil



Ordering data Control side	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 70 mA	/ 33 mA	/ 20.5 mA	16 mA / 14 mA	9 mA / 7 mA
Power rating	400 mW	400 mW	495 mW	390 mVA / 350 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 2CO AU	TRP 12VDC 2CO AU	TRP 24VDC 2CO AU	TRP 24VUC 2CO AU	TRP 48VUC 2CO AU
Order No.	2618580000	2618310000	2618530000	2618540000	2618560000
Screw connection Type	TRS 5VDC 2CO AU	TRS 12VDC 2CO AU	TRS 24VDC 2CO AU	TRS 24VUC 2CO AU	TRS 48VUC 2CO AU
Order No.	1123710000	1123720000	1123730000	1123740000	1123750000
Note					
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC = 5 %	120 V AC RC	230 V AC RC
Control side					
Control side Rated control voltage					
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 %	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 %
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 %	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 %

Ordering data					
PUSH IN connection Type	TRP 60VUC 2CO AU	TRP 120VUC 2CO AU	TRP 230VUC 2CO AU	TRP 120VAC RC 2CO AU	TRP 230VAC RC 2CO AU
Order No.	2618360000	2618590000	2618300000	2618490000	2618500000
Screw connection Type	TRS 60VUC 2CO AU	TRS 120VUC 2CO AU	TRS 230VUC 2CO AU	TRS 120VAC RC 2CO AU	TRS 230VAC RC 2CO AU
Order No.	1123770000	1123780000	1123790000	1123800000	1123810000
Note					

2 CO contact with hard gold-plated contacts multi-voltage input

- Space saving, just 12.8 mm modular width
- AgNi contact
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



AC/DC Input \forall 240 140 NO

Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 1 V
Contact type	2 CO contact (AgNi gold-plated)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

Ordering data

Control side

Rated control voltage

24...230 V UC ± 10 %

Rated current AC / DC

23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC

24 V - 230 V UC

Power rating

540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC

Status indicator

Protective circuit

Green LED

Rectifier

Approvals

CE; cULus; DETNORVER; UKCA

PUSH IN connection

Туре Order No.

Screw connection

Type Order No.

Note

TRP 24-230VUC 2CO AU ED2 TRS 24-230VUC 2CO AU ED2 2662890000

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2 CO AgNi

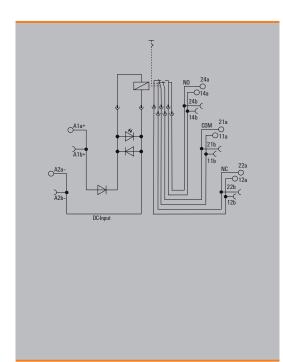
with test button

- Space-saving, only 12.8 mm wide
 AgNi contact
 For capacitive and inductive loads
 PUSH IN and screw connection

- With test button







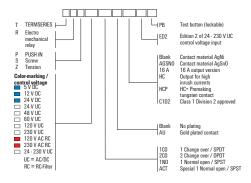
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	100 mA @ 10 V
Contact type	2 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.4	97.5 / 12.8 / 89.6
Note			

Weidmüller 😤 3043770000

2 CO AgNi with test button



Ordering data	24 V DC	24 V UC	120 V UC	230 V UC
Control side				
Rated control voltage	19.2 V24 V28.8 V DC ± 10 %	21.6 V24 V26.4 V UC ± 10 %	108 V120 V132 V UC ± 10 %	218.5 V230 V241.5 V UC ± 5 %
Rated current AC / DC	/ 16.7 mA	/ 16.7 mA	/ 4.3 mA	/ 4.3 mA
Power rating	495 mW	410 mW	456 mW	
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection			

Ordering data				
Туре	TRP 24VDC 2CO PB	TRP 24VUC 2CO PB	TRP 120VUC 2CO PB	TRP 230VUC 2C0 PB
Order No.	2988340000	2988350000	2988360000	2988370000
Туре	TRS 24VDC 2CO PB	TRS 24VUC 2CO PB	TRS 120VUC 2CO PB	TRS 230VUC 2CO PB
Order No.	2988440000	2988450000	2988460000	2988470000
Note				

2 CO AgNi

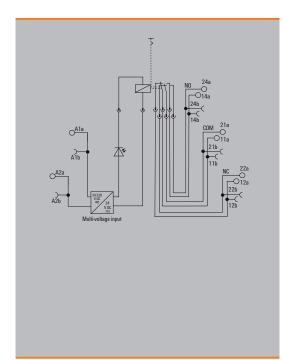
with test button

Multi-voltage input

- Space-saving, only 12.8 mm wide
- AgNi contact
- For capacitive and inductive loads
- PUSH IN and screw connection
 Multi-voltage input: 24...230 V UC in one module
- With test button







Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 4 s
Min. switching power	100 mA @ 10 V
Contact type	2 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.4	97.5 / 12.8 / 89.6
Note			

Ordering data	24 - 230 V UC
Control side	
Rated control voltage	21.6253 V UC ± 10 %
Rated current AC / DC	/ 16.7 mA
Power rating	600 mVA @ 24 V AC
Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection
Approvals	CE; cULus

Ordering data	
Туре	TRP 24-230VUC 2C0 ED2 PB
Order No.	2988380000
Туре	TRS 24-230VUC 2C0 ED2 PB
Order No.	2988480000
Note	

Weidmüller 🛣 3043770000

3043770000 **Weidmüller ₹ B.73**

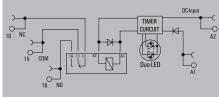
Complete modules

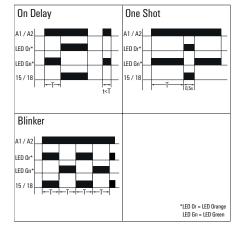
- Space-saving, 6.4 mm wide
- 3 time functions
- Complete module with 1 CO relay (AgSnO)
- PUSH IN and screw connection

PUSH IN connection 6.4 mm 6.2 mm 8.9.4 mm 89.5 mm

TR T 24 V DC 1CO M3







Technical data

Control side

Rated control voltage

Power rating

Status indicator

Repeat accuracy

Basic accuracy Setting tolerance

Min. pulse duration

Time ranges

Max. reset time after voltage interruption

Load side

Rated switching voltage

Max. switching voltage, AC

Max. switching voltage, DC Continuous current

AC switching capacity (resistive), max.

DC switching capacity (resistive), max.

Max. switching frequency at rated load

Contact type

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Protection degree

-	۰			۰		
U		е	S			S

Clamping range (nominal / min. / max.) mm²
Depth x width x height mm

Note

Ordering data

Screw connection
PUSH IN connection

Note

Accessories

Note

24 V DC ± 20 % 280 mW

Duo-LED orange: relay output on, Green duo-LED lit: supply voltage on, Green duo-LED flashes: incorrect configuration, no function

± 1 %

≤ 5% (of scale-end value)

5 %

50 ms

0.01 s - 0.1 s, 0.1 s - 1 s, 1 s - 10 s, 10 s - 100 s

50

250 V AC 250 V

250 V 6 A

1500 VA 144 W @ 24 V

0.1 Hz

1 CO contact (AgSnO)

5 x 10⁶ switching cycles

-20 °C...60 °C -40 °C. 85 °C

5-95% relative humidity, $T_u = 40$ °C, without condensation

CE; cULus; DETNORVER; UKCA

250 V

≥ 6 mm

4 kV_{eff} / 1 Min.

6 kV (1.2/50 μs) IP20

PUSH IN connection	Screw connection
1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6

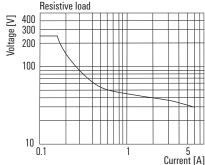
87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6

Туре	Qty.	Order No.
TRS T 24VDC 1C0 M3	10	2639560000
TRP T 24VDC 1C0 M3	10	2639730000

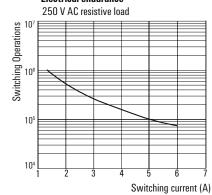
Further approvals and technical data can be found at eshop.weidmueller.com $\,$

Accessories: refer to the TERMSERIES Accessories page.

DC load breaking capacity



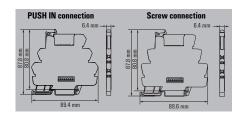
Electrical endurance



B.74 Weidmüller ₹

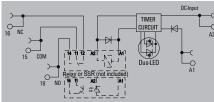
Empty socket

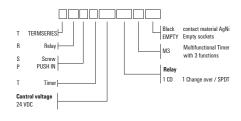
- Space-saving, 6.4 mm wide
- 3 time functions
- · Empty sockets for electromechanical relays and solidstate relays
- . PUSH IN and screw connection



TR T 24 V DC 1CO M3 EMPTY







Technical data

Control side

Rated control voltage

Power rating

Status indicator

Repeat accuracy

Basic accuracy Setting tolerance

Min. pulse duration

Time ranges

Max. reset time after voltage interruption Load side

Rated switching voltage

Max. switching voltage, AC Max. switching voltage, DC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Protection degree

24 V DC ± 20 %

Duo-LED orange: relay output on, Green duo-LED lit: supply voltage on, Green duo-LED flashes: incorrect configuration, no function

± 1 %
≤ 5% (of scale-end value)
5 %
50 ms
0.01 s - 0.1 s, 0.1 s - 1 s, 1 s - 10 s, 10 s - 100 s
50
250 V AC

250 V 250 V 10 A

-20 °C...60 °C -40 °C...85 °C

5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation

Empty socket

PUSH IN connection

15/014/25

87.8 / 6.4 / 89.4

CE: cURus: DETNORVER: UKCA

CE, CONTRO, DETROTTVEN, ORON
250 V
≥ 6 mm
4 kV _{eff} / 1 Min.
6 kV (1.2/50 μs)
IP20



Range

line

Mode	1	2
On Delay		
One Shot		
Blinker		
Range	3	4
10-100s		
1-10s		
0.1-1s		
10-100ms		

Time	5	6	7	8
0.1				
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				

Clamping range (nominal / min. / max.) mm² Depth x width x height mm Note

Ordering data

2crew	connection
PUSH IN	connection

Note

Accessories

Note

Туре	Qty.	Order No.
TRS T 24VDC 1CO M3 EMPTY	10	2639720000
TRP T 24VDC 1CO M3 EMPTY	10	2639740000

1.5 / 0.14 / 2.5

87.8 / 6.4 / 89.6

Further approvals and technical data can be found at eshop.weidmueller.com

Accessories: refer to the TERMSERIES Accessories page.

Weidmüller ₹ B.75

TERMSERIES FG

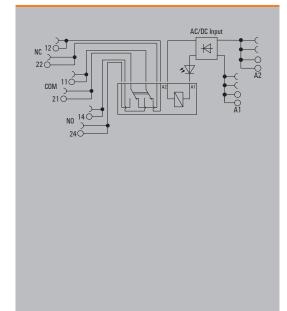
Complete module with relay

- Space-saving 12.8 mm width
- AgNi contact
- Bright shining status LED
- With protective circuitry
- PUSH IN and screw connection





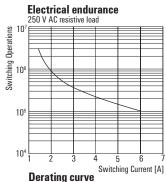


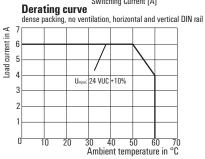


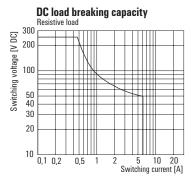
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	
Min. switching power	10 mA @ 5 V
Contact type	2 CO contacts forcibily guided (EN 61810-3 type B) (AgNi)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C60 °C
Storage temperature	-25 °C70 °C
Humidity	585 %, no condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	2.21 kV _{eff} / 1 min
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

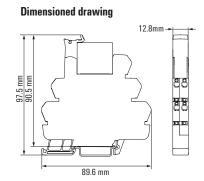
Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.6	97.5 / 12.8 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories p Further approvals and technical data can be found at eshop.weidmueller.com		

Applications



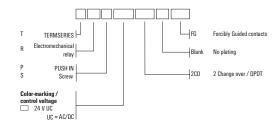






3.76 Weidmüller ₹ 3043770000

TERMSERIES FG



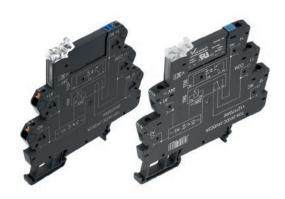
Ordering data	24 V UC
Control side	
Rated control voltage	24 V UC ±10 %
Rated current AC / DC	24.4 mA / 23.5 mA
Power rating	585 mVA, 565 mW
Status indicator	Green LED
Protective circuit	Rectifier

Ordering data		
PUSH IN connection	Туре	TRP 24VUC 2CO FG
	Order No.	2706430000
Screw connection	Туре	TRS 24VUC 2CO FG
	Order No.	2706290000
Ordering data		
Spare relay	Туре	RCH424024FG
	Order No.	2723360000
Note		

3043770000 **Weidmüller № B.77**

Solid-state relay, 3...48 V DC / 100 mA **Output versions**

- Space saving, just 6.4 mm modular width
 100 mA DC Output current
- PUSH IN and screw connection



DC Input 14 NO AC/DC Input \forall COM 14 NO AC Input + RC Filter \forall COM 14 NO

Technical data

3 48 V DC
0.1 A
1 NO contact (Bipolar transistor)
≤ 1 V
<10 μΑ
No / Free-wheeling diode
-20 °C60 °C
-40 °C70 °C
5-95% relative humidity, $T_u = 40$ °C, without condensation
CE; cULus; DETNORVER; UKCA
300 V
6 kV (1.2/50 μs)
2.5 kV _{eff}
4 kV _{eff} / 1 Min.
≥ 5.5 mm
III
2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessor Further a	Accessories and dimensional drawings; refer to the TERMSERIES Accessories pag Further approvals and technical data can be found at eshop, weidmueller.com	

Weidmüller 🛣 3043770000

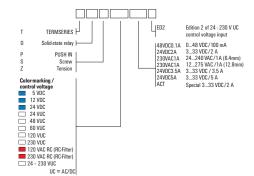
Solid-state relay, 3...48 V DC / 100 mA Output versions

control voltage) Status indicator

Protective circuit

Green LED

Rectifier



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	48 V UC ±10 %
Nominal control current	7 mA DC (±20 %)	5 mA DC (±20 %)	10 mA DC ±20 %	10 mA AC ±20 %, 6 mA DC (±20 %)	8 mA AC (±20 %), 7 mA DC (±20 %)
Power rating	35 mW	112 mW	280 mW	154 mW	290 mVA / 192 mW
max. switching frequency (DC control voltage)	10 Hz	10 Hz	300 Hz	100 Hz	100 Hz
max. switching frequency (AC control voltage)				3 Hz	3 Hz
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

PUSH IN connection Type	TOP 5VDC 48VDC0.1A	TOP 12VDC 48VDC0.1A	TOP 24VDC 48VDC0.1A	TOP 24VUC 48VDC0.1A	TOP 48VUC 48VDC0.1A
Order No.	2614860000	2618600000	2618790000	2618640000	2618710000
Screw connection Type	TOS 5VDC 48VDC0,1A	TOS 12VDC 48VDC0,1A	TOS 24VDC 48VDC0,1A	TOS 24VUC 48VDC0,1A	TOS 48VUC 48VDC0,1A
Order No.	1126920000	1126930000	1126940000	1126950000	1126960000
Note					
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side					
	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC (±10 %)	120 V UC ±10 % 5 mA AC (±30 %), 3 mA DC (±30 %)	230 V UC ±10% 3.5 mA AC (±5 %), 2.9 mA DC (±5 %)	120 V AC RC 120 V AC ±10 % 7 mA AC (±20 %)	230 V AC RC 230 V AC ±10 % 9 mA AC
Control side Rated control voltage	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC	120 V UC ±10 % 5 mA AC (±30 %), 3 mA DC	230 V UC ±10% 3.5 mA AC (±5 %), 2.9 mA DC	120 V AC ±10 %	230 V AC ±10 %
Control side Rated control voltage Nominal control current	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC (±10 %)	120 V UC ±10 % 5 mA AC (±30 %), 3 mA DC (±30 %)	230 V UC ±10% 3.5 mA AC (±5 %), 2.9 mA DC (±5 %)	120 V AC ±10 % 7 mA AC (±20 %)	230 V AC ±10 % 9 mA AC

Green LED

Rectifier

Green LED

Rectifier, RC element

Green LED

Rectifier, RC element

Ordering data					
PUSH IN connection Type Order No.	TOP 60VUC 48VDC0.1A 2614880000	TOP 120VUC 48VDC0.1A 2618680000	TOP 230VUC 48VDC0.1A 2618690000	TOP 120VAC RC 48VDC0.1A 2618650000	TOP 230VAC RC 48VDC0.1A 2618620000
Screw connection Type Order No.	TOS 60VUC 48VDC0,1A 1126970000	TOS 120VUC 48VDC0,1A 1126980000	TOS 230VUC 48VDC0,1A 1126990000	TOS 120VAC RC 48VDC0,1A 1127000000	TOS 230VAC RC 48VDC0,1A 1127010000
Note					

Green LED

Rectifier

3043770000 **Weidmüller № B.79**

Solid-state relay, 3...48 V DC / 100 mA Output versions, multi-voltage input

- Space saving, just 6.4 mm modular width
- 100 mA DC Output current
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data

Load side	
Rated switching voltage	3 48 V DC
Continuous current	0.1 A
Inrush current	
Contact type	1 NO contact (Bipolar transistor)
Voltage drop at max. load	≤ 1 V
Leakage current	<10 μΑ
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessor Further a	ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

AC/DC Input # COM 14 NO

Ordering data

Control side

Rated control voltage Nominal control current

24...230 V UC ±10 % 11.0 mA at 24 V DC, 1.1 mA at 230 V DC, 19.0 mA at 24 V AC, 2.8 mA at 230 V AC

24 V - 230 V UC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 645 mVA @ 230 V AC 3 Hz

3 Hz

Green LED

Rectifier

max. switching frequency (DC control voltage)

max. switching frequency (AC control voltage) Status indicator

Protective circuit

Approvals CE; cULus; DETNORVER; UKCA

Ordering data

PUSH IN connection Туре Order No. Screw connection Type Order No.

Note

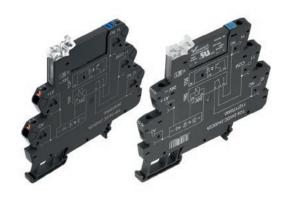
OP 24-230VUC 48VDC0,1A ED2
2663070000
OS 24-230VUC 48VDC0,1A ED2
2662910000

Weidmüller 🐔 3043770000

3043770000 **Weidmüller** ₹ **B.81**

Solid-state relay, 3...33 V DC / 2 A $\,$ **Output versions**

- Space saving, just 6.4 mm modular width 2 A DC Output current
- PUSH IN and screw connection



DC Input 14 NO AC/DC Input \forall 14 NO AC Input + RC Filter \forall COM

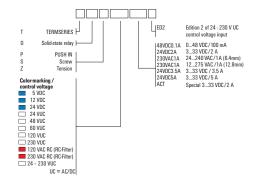
Technical data

Toominour uutu	
Load side	
Rated switching voltage	333 V DC
Continuous current	2 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (MOS-FET)
Voltage drop at max. load	≤ 120 mV
Leakage current	<10 μA
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode, Reverse polarity protection
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessor Further a	Accessories and dimensional drawings; refer to the TERMSERIES Accessories pag Further approvals and technical data can be found at eshop, weidmueller.com	

Weidmüller 🛣 3043770000

Solid-state relay, 3...33 V DC / 2 A Output versions



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	48 V UC ±10 %
Nominal control current	11.5 mA DC (±20%)	9.6 mA DC (±20 %)	11.5 mA DC (±10 %)	10 mA AC ±20 %, 6 mA DC (±20 %)	8 mA AC (±20 %), 7 mA DC (±20 %)
Power rating	50 mW	112 mW	280 mW	154 mW	290 mVA / 192 mW
max. switching frequency (DC control voltage)	300 Hz	300 Hz	300 Hz	10 Hz	10 Hz
max. switching frequency (AC control voltage)				3 Hz	3 Hz
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TOP 5VDC 24VDC2A	TOP 12VDC 24VDC2A	TOP 24VDC 24VDC2A	TOP 24VUC 24VDC2A	TOP 48VUC 24VDC2A
Order No.	2618810000	2618820000	2618720000	2618730000	2618760000
Screw connection Type	TOS 5VDC 24VDC2A	TOS 12VDC 24VDC2A	TOS 24VDC 24VDC2A	TOS 24VUC 24VDC2A	TOS 48VUC 24VDC2A
Order No.	1127140000	1127150000	1127170000	1127180000	1127190000
Note					
Ordering data Control side	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Rated control voltage	60 V UC ±10 %	120 V UC ±10 %	230 V UC ±10%	120 V AC ±10 %	230 V AC ±10 %
Nominal control current	4.8 mA AC (±10 %), 2.5 mA DC (±10 %)	4.1 mA AC (±10 %), 2.6 mA DC (±10%)	3.5 mA AC (±5 %), 2.9 mA DC (±5 %)	7 mA AC (±20 %)	9 mA AC
Power rating	150 mW, 290 mVA	0.49 VA, 0.31 W	670 mW, 805 mVA	0.84 VA	1.9 VA
max. switching frequency (DC control voltage)	10 Hz	10 Hz	3 Hz		
control voltage/					
max. switching frequency (AC control voltage)	3 Hz	10 Hz	3 Hz	3 Hz	3 Hz
max. switching frequency (AC	3 Hz Green LED	10 Hz Green LED	3 Hz Green LED	3 Hz Green LED	3 Hz Green LED

Ordering data					
PUSH IN connection Type	TOP 60VUC 24VDC2A	TOP 120VUC 24VDC2A	TOP 230VUC 24VDC2A	TOP 120VAC RC 24VDC2A	TOP 230VAC RC 24VDC2A
Order No.	2618970000	2618770000	2618800000	2618660000	2618670000
Screw connection Type	TOS 60VUC 24VDC2A	TOS 120VUC 24VDC2A	TOS 230VUC 24VDC2A	TOS 120VAC RC 24VDC2A	TOS 230VAC RC 24VDC2A
Order No.	1127200000	1127210000	1127220000	1127230000	1127240000
Note					

3043770000 **Weidmüller № B.83**

Solid-state relay, 3...33 V DC / 2 A Output versions, multi-voltage input

- Space saving, just 6.4 mm modular width
- 2 A DC Output current
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module

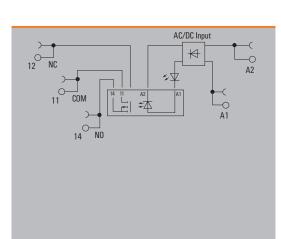




Technical data

Load side	
Rated switching voltage	333 V DC
Continuous current	2 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (MOS-FET)
Voltage drop at max. load	≤ 120 mV
Leakage current	<10 µA
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com



Ordering data

Control side

Rated control voltage Nominal control current

24...230 V UC ±10 % 11.0 mA at 24 V DC, 1.1 mA at 230 V DC, 19.0 mA at 24 V AC, 2.8 mA at 230 V AC

24 V - 230 V UC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 645 mVA @ 230 V AC 3 Hz

max. switching frequency (DC control voltage)

max. switching frequency (AC control voltage) Status indicator

Protective circuit

Approvals

3 Hz Green LED Rectifier

CE; cULus; DETNORVER; UKCA

Ordering data

PUSH IN connection Type Order No. Screw connection Type Order No.

Note

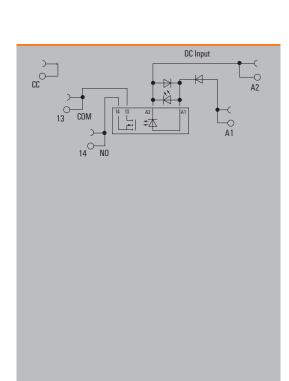
TOP 24-230VUC 24VDC2A ED2 TOS 24-230VUC 24VDC2A ED2 2662920000

Weidmüller 🏖 3043770000

Solid-state relay, 3...33 V DC / 2 A actuator versions

- Space-saving, only 6.4 mm wide
 AgNi contact
 PUSH IN and screw connection

- 24 V DC actuator version: Bridgeable, potential-free connection in the output (CC)







Technical data

333 V DC
2 A
15 A / 10 ms
1 NO contact (MOS-FET)
≤ 120 mV
<10 µA
No / Free-wheeling diode
-20 °C60 °C
-40 °C70 °C
5-95% relative humidity, $T_u = 40$ °C, without condensation
CE; cULus; DETNORVER; UKCA
300 V
6 kV (1.2/50 μs)
2.5 kV _{eff}
4 kV _{eff} / 1 Min.
≥ 5.5 mm
III
2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

Ordering data	24 V DC		
Control side			
Rated control voltage	24 V DC ±20 %		
Nominal control current	11.5 mA DC (±10 %)		
Power rating	280 mW		
max. switching frequency (DC control voltage)	300 Hz		
max. switching frequency (AC control voltage)			
Status indicator	Green LED		
Protective circuit	Free-wheeling diode, Reverse polarity protection		

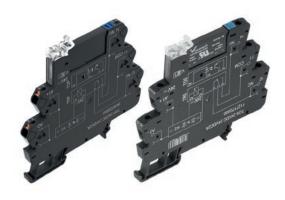
Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	Order No.
Note	

TOP 24VDC ACT
2618750000
TOS 24VDC ACT
1391680000

Weidmüller ₹ B.85 3043770000

Solid-state relay, 24...230 V AC / 1 A **Output versions**

- Space saving, just 6.4 mm modular width
 1 A AC Output current
- PUSH IN and screw connection



DC Input 14 NO AC/DC Input \forall COM 14 NO 12 NC \forall COM

14 NO

Technical data

iconincai aata	
Load side	
Rated switching voltage	24240 V AC
Continuous current	1 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (Triac (zero-cross switch))
Voltage drop at max. load	≤ 1.6 V
Leakage current	<1.5 mA
Short-circuit-proof / Protective circuit, load side	No / RC element
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ies and dimensional drawings: refer pprovals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

Weidmüller 🛣 3043770000

Solid-state relay, 24...230 V AC / 1 A Output versions

max. switching frequency (AC

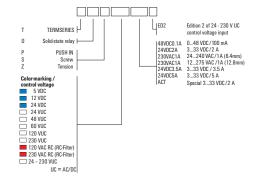
control voltage) Status indicator

Protective circuit

3 Hz

Green LED

Rectifier



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	48 V UC ±10 %
Nominal control current	15 mA DC (±20 %)	9.6 mA DC (±20 %)	11.5 mA DC (±10 %)	10 mA AC ±20 %, 6 mA DC (±20 %)	6 mA AC (±20 %), 4 mA DC (±20 %)
Power rating	75 mW	112 mW	280 mW	154 mW	290 mVA / 192 mW
max. switching frequency (DC control voltage)	3 Hz	3 Hz	3 Hz	3 Hz	3 Hz
max. switching frequency (AC control voltage)				3 Hz	3 Hz
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TOP 5VDC 230VAC1A	TOP 12VDC 230VAC1A	TOP 24VDC 230VAC1A	TOP 24VUC 230VAC1A	TOP 48VUC 230VAC1A
Order No.	2614850000	2618380000	2618420000	2618350000	2618460000
Screw connection Type	TOS 5VDC 230VAC1A	TOS 12VDC 230VAC1A	TOS 24VDC 230VAC1A	TOS 24VUC 230VAC1A	TOS 48VUC 230VAC1A
Order No.	1127390000	1127400000	1127410000	1127420000	1127430000
Note					
Ordering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side					
Dated control voltage					
Rated control voltage	60 V UC ±10 %	120 V UC ±10 %	230 V UC +5 %/ -10 %	120 V AC ±10 %	230 V AC +5 % / -10 %
-	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC (±10 %)	120 V UC ±10 % 5 mA AC (±30 %), 3 mA DC (±30 %)	230 V UC +5 %/ -10 % 3.5 mA AC (±5 %), 2.9 mA DC (±5 %)	120 V AC ±10 % 7 mA AC (±20 %)	230 V AC +5 % / -10 % 8.3 mA AC (±5 %)
Nominal control current Power rating	4.8 mA AC (±10 %), 2.5 mA DC	5 mA AC (±30 %), 3 mA DC	3.5 mA AC (±5 %), 2.9 mA DC		

3 Hz

Green LED

Rectifier

3 Hz

Green LED

RC element

3 Hz

Green LED

RC element

3 Hz

Green LED

Rectifier

Ordering data					
PUSH IN connection Type	TOP 60VUC 230VAC1A	TOP 120VUC 230VAC1A	TOP 230VUC 230VAC1A	TOP 120VAC RC 230VAC1A	TOP 230VAC RC 230VAC1A
Order No.	2618370000	2618480000	2618450000	2618390000	2618430000
Screw connection Type	TOS 60VUC 230VAC1A	TOS 120VUC 230VAC1A	TOS 230VUC 230VAC1A	TOS 120VAC RC 230VAC1A	TOS 230VAC RC 230VAC1A
Order No.	1127440000	1127450000	1127470000	1127480000	1127490000
Note					

3043770000 **Weidmüller № B.87**

Solid-state relay, 24 - 230 V AC / 1 A Output versions, multi-voltage input

- Space saving, just 6.4 mm modular width
- 1 A AC Output current
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data

Load side	
Rated switching voltage	24240 V AC
Continuous current	1 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (Triac (zero-cross switch))
Voltage drop at max. load	≤ 1 V
Leakage current	<1.5 mA
Short-circuit-proof / Protective circuit, load side	No / RC element
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

AC/DC Input

Ordering data

Control side

Rated control voltage

Nominal control current

24...230 V UC ±10 % 11.0 mA at 24 V DC, 1.1 mA at 230 V DC, 19.0 mA at 24 V AC, 2.8 mA at 230 V AC

24 V - 230 V UC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 645 mVA @ 230 V AC 3 Hz

3 Hz

Green LED

max. switching frequency (DC control voltage)

max. switching frequency (AC control voltage) Status indicator

Approvals

Protective circuit

Rectifier CE; cULus; DETNORVER; UKCA

Ordering	data
----------	------

PUSH IN connection Туре Order No. Screw connection Type Order No.

Note

TOP 24-230VUC 230VAC1A ED2
2663090000
TOS 24-230VUC 230VAC1A ED2
2662930000

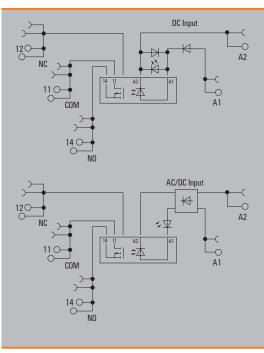
Weidmüller 🐔 3043770000

3043770000 **Weidmüller ₹ B.89**

Solid-state relay, 0...33 V DC / 3.5 A Output versions

- Space saving, just 12.8 mm modular width
- 3.5 A DC Output current
- Internal cross connection of the output terminals
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data

333 V DC
3.5 A
1 NO contact (MOS-FET)
≤ 0.3 V
<10 μΑ
No / Free-wheeling diode
-20 °C60 °C
-40 °C70 °C
5-95% relative humidity, $T_u = 40$ °C, without condensation
300 V
6 kV (1.2/50 μs)
2.5 kV _{eff}
4 kV _{eff} / 1 Min.
≥ 5.5 mm
III
2

Dimensions	'	PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

rdering data	24 V DC
Control side	
Rated control voltage	24 V DC ±20 %
Nominal control current	10 mA DC ±20 %
ower rating	240 mW
nax. switching frequency (DC ontrol voltage)	300 Hz
nax. switching frequency (AC ontrol voltage)	
tatus indicator	Green LED
rotective circuit	Free-wheeling diode, Reverse polarity protection
pprovals	CE; cULus; DETNORVER; UKCA
ordering data	
PUSH IN connection Type	TOP 24VDC 24VDC3.5A
	. C. 2

2618700000

TOS 24VDC 24VDC3,5A

1127630000

Order No.

Type Order No.

Screw connection

Note

24230 V UC ±10 %
12.0 mA at 24 V DC, 1.1 mA at 230 V DC, 20.0 mA at 24 V AC, 3.0 mA at 230 V AC
290 mW @ 24 V DC, 255 mW @ 230 V DC, 480 mVA @ 24 V AC, 690 mVA @ 230 V AC
3 Hz
3 Hz
Green LED
Rectifier
CE; cULus; DETNORVER; UKCA
TOD 24 2201/IIC 241/DC2 FA FD2

24 V - 230 V UC

TOP 24-230VUC 24VDC3,5A ED2
2663100000
TOS 24-230VUC 24VDC3,5A ED2
2662940000

B.90 Weidmüller ₹ 3043770000

Solid-state relay, 0...33 VDC / 5 A

Output versions

- Space-saving, 12.8 mm wide 5 A DC output current
- Internal cross-connection of the output terminals
 PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



DC Input AC/DC Input \forall

Technical data

Load side	
Rated switching voltage	333 V DC
Continuous current	5 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (MOS-FET)
Voltage drop at max. load	≤ 0.3 V
Leakage current	<10 μΑ
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions	'	PUSH IN connection	Screw connection	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5	
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6	
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

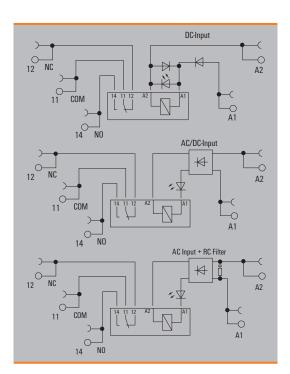
Ordering data			24 V DC		24 V - 230 V UC
Control side					
Rated control voltag	е		24 V DC ±20 %	_	24230 V UC ±10 %
Nominal control curr	rent		10.8 mA DC (±10 %)	_	9.5 mA at 24 V DC, 1.1 mA at 230 V DC, 18 mA at 24 V AC, 3.0 mA at 230 V AC
Power rating			260 mW	_	230 mW @ 24 V DC, 255 mW @ 230 V DC, 430 mVA @ 24 V AC, 690 mVA @ 230 V AC
max. switching frequency	uency (DC		300 Hz	_	3 Hz
max. switching frequency	uency (AC			_	3 Hz
Status indicator			Green LED	_	Green LED
Protective circuit		Free	-wheeling diode, Reverse polarity protection	_	Rectifier
Approvals		CE; o	ULus; DETNORVER; UKCA	_	CE; cULus; DETNORVER; UKCA
Ordering data				ı	
PUSH IN connection	Type		TOP 24VDC 24VDC5A		TOP 24-230VUC 24VDC5A ED:
	Order No.		2618840000		2663150000
Screw connection	Type		TOS 24VDC 24VDC5A	_	TOS 24-230VUC 24VDC5A ED
	Order No.		1990960000		2662990000
Note					

Weidmüller ₹ B.91 3043770000

1 CO contact, cl. 1, div. 2 AC / DC / UC coil

- Space-saving, only 6.4 mm wide
- AgNi contact
- Multi-voltage input: 24...230 V UC in one module
- Screw connection



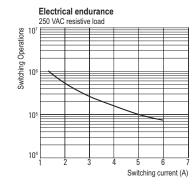


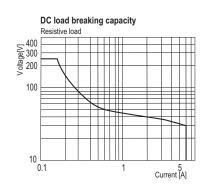
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULusEX; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	Ш
Pollution degree	2

Dimensions		Screw connection		
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5		
Depth x width x height	mm	87.8 / 6.4 / 89.6		
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page.		

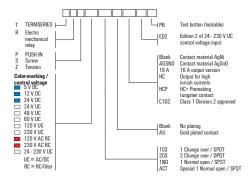
Applications





B.92 Weidmüller ₹ 3043770000

1 CO contact, cl. 1, div. 2 AC / DC / UC coil



12 V DC 24 V DC 24 V UC **120 V AC RC** 230 V AC RC **Ordering data** Control side 120 V AC ± 10 % Rated control voltage 12 V DC ± 20 % 24 V DC ± 20 % 24 V UC ± 10 % 230 V AC ± 10 % Rated current AC / DC / 18 mA / 11.5 mA 11.7 mA / 6.4 mA 7 mA / 8.5 mA / 270 mVA / 154 mW Power rating 210 mW 280 mW 840 mVA 2 VA Status indicator Green LED Green LED Green LED Green LED Green LED Free-wheeling diode, Reverse polarity protection Free-wheeling diode, Reverse polarity protection Rectifier, RC element Protective circuit Rectifier Rectifier, RC element

Ordering data						
Screw connection	Type Order No. Type Order No.	TRS 12VDC 1CO C1D2 1984560000	TRS 24VDC 1C0 C1D2 1984570000	TRS 24VUC 1CO C1D2 1984580000	TRS 120VACRC 1C0 C1D2 1984590000	TRS 230VACRC 1C0 C1D2 1984600000
Note						

Ordering data

Control side

Rated control voltage Rated current AC / DC 24...230 V UC ± 10 % 27.1 mA AC @ 24 V AC, 4.8 mA AC @ 230 V AC / 25.6 mA DC @ 24 V DC, 2.5 mA DC @ 230 V DC

24...230 V UC

Power rating

610 mW @ 24 V DC, 650 mVA @ 24 V AC, 575 mW @ 230 V DC, 1.1 VA @ 230 V AC

Status indicator Protective circuit Green LED Rectifier

Ordering data	
Screw connection	Туре
	Order No.
	Туре
	Order No.
Note	

TRS 24-230VUC 1CO C1D2
1984610000

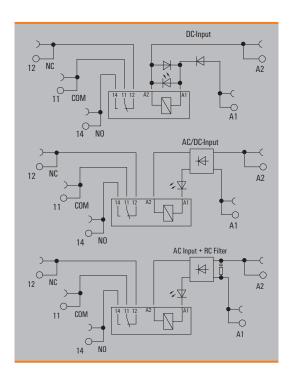
3043770000 **Weidmüller № B.93**

B

1 CO contact, cl. 1, div. 2 With hard gold-plated contacts AC / DC / UC coil

- Space-saving, only 6.4 mm wide
- AgNi contact with hard gold plating
 Multi-voltage input: 24...230 V UC in one module
- Screw connection



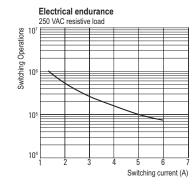


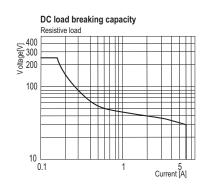
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgNi gold-plated)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	<u></u>
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULusEX; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

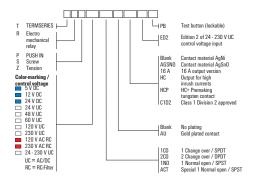
Dimensions		Screw connection	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	
Depth x width x height	mm	87.8 / 6.4 / 89.6	
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories pag Further approvals and technical data can be found at eshop.weidmueller.com	

Applications





Weidmüller 🐔 3043770000 1 CO contact, cl. 1, div. 2 With hard gold-plated contacts AC / DC / UC coil



Ordering data	12 V DC	24 V DC	120 V AC RC	24-230 V UC
Control side				
Rated control voltage	12 V DC ± 20 %	24 V DC ± 20 %	120 V AC ± 10 %	24230 V UC ± 10 %
Rated current AC / DC	/ 18 mA	/ 11.5 mA	7 mA /	27.1 mA AC @ 24 V AC, 4.8 mA AC @ 230 V AC / 25.6 mA DC @ 24 V DC, 2.5 mA DC @ 230 V DC
Power rating	210 mW	280 mW	840 mVA	610 mW @ 24 V DC, 650 mVA @ 24 V AC, 575 mW @ 230 V DC, 1.1 VA @ 230 V AC
Status indicator	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier, RC element	Rectifier

Ordering data					
Screw connection	ype	TRS 12VDC 1COAU C1D2	TRS 24VDC 1COAU C1D2	TRS 120VACRC 1COAU C1D2	TRS 24-230VUC 1COAUC1D2
Order	No.	1984620000	1984630000	1984640000	1984650000
1	ype				
Order	No.				
Note					

3043770000 **Weidmüller № B.95**

TERMSERIES accessories

Increase productivity in control cabinet wiring

Growing plant complexity and more individual production processes require higher flexibility and efficiency. Solid-state relays and relay modules from the TERMSERIES-compact and TERMSERIES can be added individually according to the application. In addition to many relay modules and solid-state relay variants, we offer you suitable supply terminals, partition plates, cross-connections and markers. This provides you with a flexible modular system for signal separation and amplification, enabling you to work better, faster and more reliably.

Adjustable cross-connections

Increase the flexibility of your cross-connections. The TERMSERIES CROSS-CONNECTION (TCC) enables individually adjustable cross-connections with up to 51 poles. The maximum number of pluggable poles has been increased to 32 poles. The strip material can be shortened to the required length very easily. The cross-connectors convince thanks to their easy handling and visibility as well as their universal connection possibilities. An additional bar prevents the spring from deforming during assembly.

Versatile partition plates

Partition plates can be used to group together signals visually, to electrically isolate modules and to insert markings for a better overview. This makes them a particularly versatile accessory. Partition plates increase the clearance and creepage distances between two modules, thus increasing the rated insulation voltage between two modules to up to 600 V. Double partition plates can be marked with WAD5 or WS10/5 markers and enable continuous cross-connections. Installation is made easier with the perforations to individually break out the cross-connection channels.

Comprehensive marking system

Marking in accordance with DIN EN 60204-1 is essential for the operation and maintenance of industrial plant. With our marking system we offer you a complete, perfectly coordinated product range of markers and printers. TERMSERIES products can be combined, for example, with the proven MultiCard format, which can be printed using various Weidmüller printers. On top of this are the innovative MultiMark terminal markers, which are particularly easy and precise to install thanks to their stretchable material. All markers guarantee excellent print results as well as long-lasting, resistant marking.

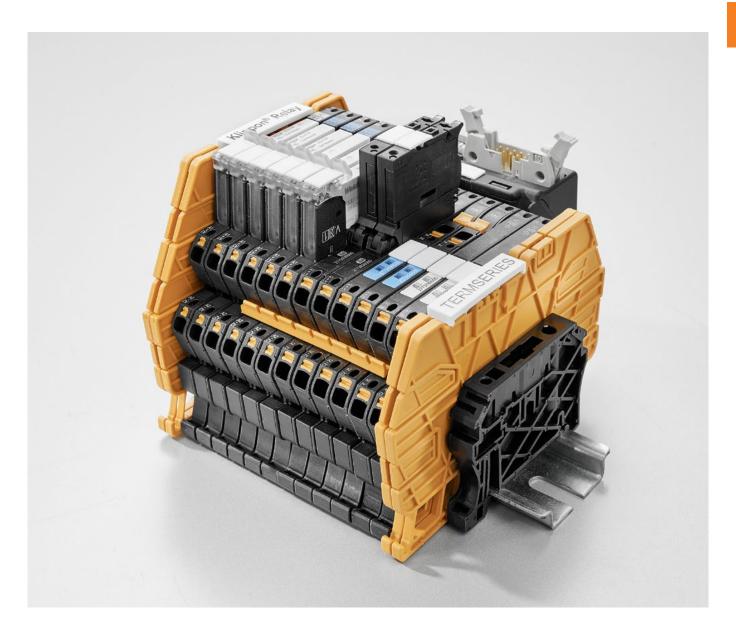
Space-saving feed-in terminals

For easy feed-in of neutral or negative potentials at the input of switched potentials at the output. Cross-connections enable space-saving connection of sensors and actuators without additional feed-through terminal blocks.

Precision-fit feed-through terminals

The precisely fitting terminals enable potentials to be brought from the control side to the load side and vice versa. Due to the compatibility with the TERMSERIES, there is a uniform test system with a standardised test tap.

3.96 Weidmüller ₹ 3043770000



Visit our website for more information www.weidmueller.com/term www.weidmueller.com/termcompact

RCL relay module



Simi		

Technical data	
Contact type	
Max. switching voltage, AC	
Max. switching voltage, DC	
Rated switching voltage	
Min. switching power	

Min	switching	nowe
IVIIII.	SWILLIIIII	power

Mechanical service life

Technical data

e, AC
e, DC
je
)

t DC	Order No.
	4061580000
	4061610000
	4060120000
	4061630000
	1454430000

RSS113...

1 CO contact (AgNi)

100 mA @ 5 V 10 mA @ 10 V

1 mA @ 24 V

5 x 10⁶

250 V

250 V

6 A

Order No.
1174540000
1220670000
4061590000
4061600000

RSS112...

1 CO contact (AgNi 5uAu)1)

250 V

250 V

1 mA @ 1 V

5 x 10⁶

6 A

RS110... 1 CO contact (AgSnO) 250 V 250 V 6 A 100 mA @ 12 V

5 x 10⁶

250 V 250 V 6 A 1 mA @ 1 V

RS111...

1 CO contact (AgSnO AU)

10 x 10⁶

Туре
RSS005
RSS012
RSS024
RSS060
RSS024F
RSS24T (with test button)
RSS24Y

Rated control voltage	Rated current
5 V DC	34 mA
12 V DC	14 mA
24 V DC	7 mA
60 V DC	3 mA
24 V DC	7 mA
24 V DC	7 mA
24 V DC	7 mA

Order No.
1174540000
1220670000
4061590000
4061600000

Order No.	Order No.
984100000	
984110000	
984090000	
984120000	
	2851620000
851640000	

RCL relay module



Contact type	
Max. switching voltage, AC	
Max. switching voltage, DC	
Rated switching voltage	
Min. switching power	
Mechanical service life	

RCL424
2 CO contact (AgNi)
250 V
250 V
8 A
100 mA @ 5 V
10 mA @ 12 V
1 mA @ 24 V
30 x 10 ⁶

2851640000

HOLTZU
2 CO contact (AgNi 5uAu)1)
250 V
250 V
8 A
1 mA @ 1 V
30 x 10 ⁶

Similar to figure

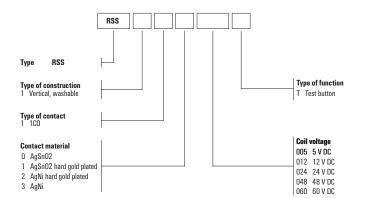
Туре	
RCL005	
RCL012	
RCL024	
RCL048	
RCL060	
RCL110	

Rated control voltage	
5 V DC	8
12 V DC	- (
24 V DC	_
48 V DC	8
60 V DC	(
110 V DC	- (
	_

Rated current DC
80 mA
33 mA
16 mA
8 mA
6 mA
3 mA

Order No.
8693790000
4058560000
4058570000
4058750000
4058760000
4058590000

Order No.	
1174490000	
4074580000	
4058580000	
1201230000	
1201260000	
8828370000	



Weidmüller 🐔 B.98 3043770000

Small solid-state relay



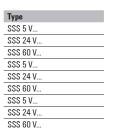
Contact type Rated switching voltage Continuous current Min. switching current Voltage drop at max. load Leakage current Dielectric strength for control side - load side Operating temperature	Technical data
Continuous current Min. switching current Voltage drop at max. load Leakage current Dielectric strength for control side - load side	Contact type
Min. switching current Voltage drop at max. load Leakage current Dielectric strength for control side - load side	Rated switching voltage
Voltage drop at max. load Leakage current Dielectric strength for control side - load side	Continuous current
Leakage current Dielectric strength for control side - load side	Min. switching current
Dielectric strength for control side - load side	Voltage drop at max. load
Ü	Leakage current
Operating temperature	Dielectric strength for control side - load side
oporating temperature	Operating temperature
Storage temperature	Storage temperature

SSS24 V 0,1 A DC
1 NO contact
(Bipolar transistor)
048 V DC
100 mA DC
500 μΑ
≤ 1 V
< 10 μΑ
2.5 kV _{eff}
-20 °C60 °C
-40 °C70 °C

SSS24 V 2 A DC	SSS230 V 1 A AC
1 NO contact	Contact type 1 NO contact
(MOS-FET)	(Triac (zero-cross switch))
024 V DC	24240 V AC
2 A	1 A
5 mA	20 mA
≤ 120 mV	≤ 1 V
< 10 μA	< 1.5 mA
2.5 kV _{eff}	2.5 kV _{eff}
-20 °C60 °C	-20 °C60 °C
-40 °C70 °C	-40 °C70 °C

Similar to figure

Note



Rated control voltage	Nominal control current
5 V DC	4 mA DC
24 V DC	7 mA DC
60 V DC	3 mA DC
5 V DC	9 mA DC
24 V DC	7 mA DC
60 V DC	3 mA DC
5 V DC	15 mA DC
24 V DC	7 mA DC
60 V DC	3 mA DC

Order No.
4064320000
4061180000
4061230000
-
-
-
-
-
-

Order No.
-
-
-
4064310000
4061190000
4061200000
-
-
-

Order No.
-
-
-
-
-
-
1132260000
4061210000
4061220000

Solid-state relay



Technical data
Contact type
Rated switching voltage
Continuous current
Min. switching current
Voltage drop at max. load
Leakage current
Dielectric strength for control side - load side
Operating temperature
Storage temperature

SSR/0-35 V DC 3,5 A				
1 NO contact (MOS-FET)				
033 V DC				
3.5 A				
10 mA				
≤ 0.3 V				
< 10 μΑ				
2.5 kV _{eff}				
-20 °C60 °C				
-40 °C70 °C				

SSR/0-35VDC 5A	SSR/12-275 V AC 1 A			
1 NO contact (MOS-FET)	Contact type 1 NO contact			
- No contact (NOS-1E1)	(Triac (zero-cross switch))			
035 V DC	12275 V AC			
5 A	1 A			
1 mA	50 mA			
≤ 0.3 V	≤ 1 V			
< 20 μA	< 1.5 mA			
2.5 kV _{eff}	2.5 kV _{eff}			
-20 °C80 °C	-20 °C60 °C			
-40 °C100 °C	-40 °C70 °C			

Similar to figure

Туре
SSR10 32 V DC/

Rated control voltage
1032 V DC

Nominal control current
313 mA DC

Order No.	
1132310000	

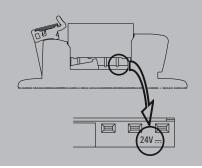
Order No.	
1421450000	

Order No. 1132290000

3043770000 **Weidmüller № B.99**

Accessories

The TERMSERIES relay sockets are fitted with internal circuitry in the input which adapts the control voltage to the coil voltage of the connected relay. It should be ensured that the voltages of the socket and the pluggable relay are compatible, since the control voltage and coil voltage are not always identical (see table below). For this reason, the coil voltage is printed on the relay sockets (refer to figure).

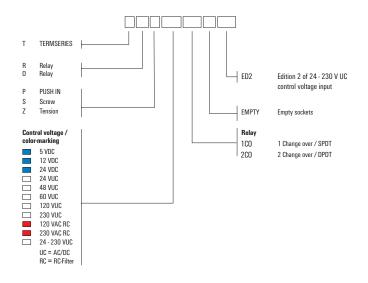


E.g.:
A 24 V DC relay is plugged into the
TERMSERIES 24 V DC socket (item no.
1123240000). The control voltage is
transferred almost unchanged to the relay
coil for this relay socket.
Conversely, a 60V DC relay is plugged into
the TERMSERIES 230 V AC relay socket
(item no. 1123320000). The internal
circuitry adapts the applied coil voltage to
the control voltage.

Empty socket 6,4 mm

	Rated control voltage	Plugable relay version	Qty.	Type / 1 CO PUSH IN	Order No.	Type / 1 CO Screw connection	Order No.
	5 V DC	1	10	TRP 5VDC 1CO EMPTY	2614870000	TRS 5VDC 1CO EMPTY	1123220000
	12 V DC	2	10	TRP 12VDC 1CO EMPTY	2618930000	TRS 12VDC 1CO EMPTY	1123230000
1950 E	24 V DC	3	10	TRP 24VDC 1CO EMPTY	2618870000	TRS 24VDC 1CO EMPTY	1123240000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 V UC	3	10	TRP 24VUC 1CO EMPTY	2618910000	TRS 24VUC 1CO EMPTY	1123250000
a sala Dil se de	48 V UC	3	10	TRP 48VUC 1CO EMPTY	2618920000	TRS 48VUC 1CO EMPTY	1123270000
Plant I	60 V UC	4	10	TRP 60VUC 1CO EMPTY	2618900000	TRS 60VUC 1CO EMPTY	1123280000
ESES AN AMERICA	120 V UC	4	10	TRP 120VUC 1CO EMPTY	2618950000	TRS 120VUC 1CO EMPTY	1123290000
- The sales	230 V UC	4	10	TRP 230VUC 1CO EMPTY	2618960000	TRS 230VUC 1CO EMPTY	1123300000
146	120 V AC	4	10	TRP 120VAC RC 1CO EMPTY	2618880000	TRS 120VAC RC 1CO EMPTY	1123310000
	230 V AC	4	10	TRP 230VAC RC 1CO EMPTY	2618890000	TRS 230VAC RC 1CO EMPTY	1123320000
	24230 V AC / DC	3	10	TRP 24-230VUC 1CO EMPTY ED2	2663030000	TRS 24-230VUC 1CO EMPTY ED2	2662870000

Plugable relay version	Electromechanical relay	Solid-state relay
1	RSS005	SSS 5V/
2	RSS012	-
3	RSS024 / RSS024F	SSS 24V/
4	RSS060	SSS 60V/
5	RSS24Y	
6	RSS24T	



B.100 Weidmüller ₹ 3043770000

Empty socket 12,8 mm

	Rated control voltage	Plugable relay version	Qty.	Type / 1 CO PUSH IN	Order No.	Type / 1 CO Screw connection	Order No.
	24 V DC	1	10	TOP 24VDC EMPTY	2618740000	TOS 24VDC EMPTY	1127720000
	24230 V UC	1	10	TOP 24-230VUC EMPTY ED2	2663110000	TOS 24-230VUC EMPTY ED2	2662950000
	Rated control voltage		Qty.	2 CO PUSH IN	Order No.	2 CO Screw connection	Order No.
	5 V DC	2	10	TRP 5VDC 2CO EMPTY	2680850000	TRS 5VDC 2CO EMPTY	1123950000
The same of the sa	12 V DC	3	10	TRP 12VDC 2CO EMPTY	2680960000	TRS 12VDC 2CO EMPTY	1123970000
12 B 200 2	24 V DC	4	10	TRP 24VDC 2CO EMPTY	2680970000	TRS 24VDC 2CO EMPTY	1123980000
100 100	24 V UC	4	10	TRP 24VUC 2CO EMPTY	2680980000	TRS 24VUC 2CO EMPTY	1123990000
The state of the s	48 V UC	5	10	TRP 48VUC 2CO EMPTY	2680990000	TRS 48VUC 2CO EMPTY	1124000000
5	60 V UC	6	10	TRP 60VUC 2CO EMPTY	2681000000	TRS 60VUC 2CO EMPTY	1124010000
	120 V UC	7	10	TRP 120VUC 2CO EMPTY	2681010000	TRS 120VUC 2CO EMPTY	1124020000
	230 V UC	7	10	TRP 230VUC 2CO EMPTY	2681020000	TRS 230VUC 2CO EMPTY	1124030000
	120 V AC	7	10	TRP 120VAC RC 2CO EMPTY	2681030000	TRS 120VAC RC 2CO EMPTY	1124040000
	230 V AC	7	10	TRP 230VAC RC 2CO EMPTY	2681190000	TRS 230VAC RC 2CO EMPTY	1124050000
	24230 V AC / DC	4	10	TRP 24-230VUC 2CO EMPTY ED2	2663060000	TRS 24-230VUC 2CO EMPTY ED2	2662900000

Plugable relay version	Electromechanical relay	Solid-state relay
1	RCL31024; RCLS3L024W; RCLS3T024W	SSR 10-32VDC; SSR 24 VDC
2	RCL424005; RCL425005	
3	RCL424012; RCL425012	
4	RCL424024; RCL425024	SSR 10-32VDC; SSR 24 VDC
5	RCL424048; RCL425048	
6	RCL424060 ; RCL425060	
7	RCL424110; RCL425110	SSR 10-32VDC; SSR 24 VDC

Connection data

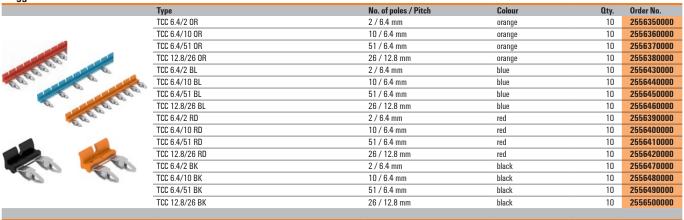
Gauge to IEC 60947-1	Size
1 conductor	
Solid H07V-U	mm ²
Finely stranded H07V-K	mm ²
with ferrule without collar	mm ²
with ferrule with collar	mm ²
American Wire Gauge AWG/1	AWG
American Wire Gauge AWG/7	AWG
American Wire Gauge AWG/19	AWG
2 conductor with same size	
Solid H07V-U	mm ²
Finely stranded H07V-K	mm ²
with twin ferrule	mm ²
Tightening torque, max.	Nm
Stripping length	mm

PUSH IN	
A1 / B1	
0.141.5	
0.142.5	
0.141.5	
0.141.5	
2614	
2614	
2614	
0.51.0	
9	
·	_

Screw connection
A1/B1
0.142.5
0.142.5
0.252.5
0.252.5
2614
2616
2616
0.51.0
0.51.0
0.51.0
0.4
8
·

3043770000 **Weidmüller 3 B.101**

Pluggable cross connection



Supply module



Туре	Connection technology	Qty.	Order No.
TXS SUPPLY	Screw connection	10	1240780000
TXP SUPPLY	PUSH IN connection	10	2618940000
TXPL S	PUSH IN connection	1	2774100000

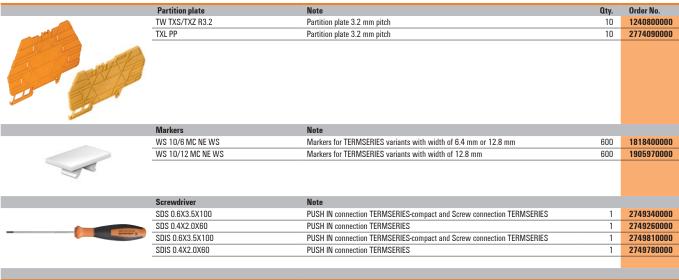
Feed-through terminal



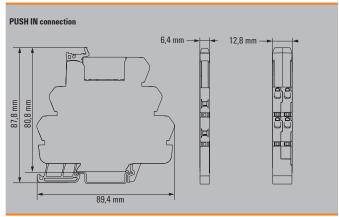
Type TXPL FT	Connection technology PUSH IN connection	Qty. 1	Order No. 2774080000

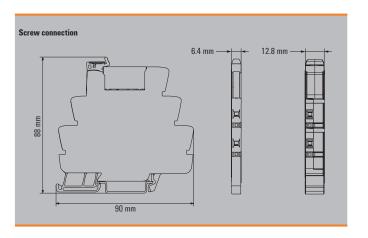
B.102 Weidmüller ₹ 3043770000

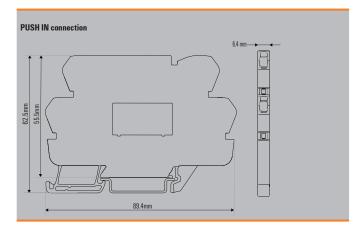
Other accessories



Dimensions







3043770000 **Weidmüller 3 B.103**

TERMSERIES interface adapter

Faster signal wiring with less space

Our adapter for TERMSERIES Relays reduces wiring times per plug-and-play

To reduce wiring times, pre-assembled cables are used between the control system and the interface level and are simply connected to the TERMSERIES adapter. This enables throughput times in electrical cabinet building to be significantly reduced. The adapter has a universal fit and offers a genuine space advantage in interaction with the TERMSERIES-compact and TERMSERIES products with identical contours.







Weidmüller 🐔 3043770000

Universal range



Visit our website for more information www.weidmueller.com/term

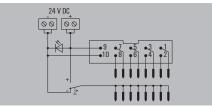
3043770000 **Weidmüller ₹ B.105**

TERMSERIES Interface adapters

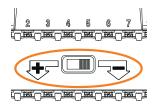
- · Suitable for input and output logic
- · Version for 6.4 mm TERMSERIES socket
- Supply connections (PUSH IN) in double version for supply voltage bridging
- · User-friendly and clear marking
- 10-pole connecting plug according to DIN EN 60603-13

TIA F10





Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

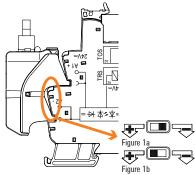


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).

Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Technical data

Supply

Voltage supply Status display

Signals

Rated voltage

Voltage, max.

Rated current (per signal path)

Current (per signal path), max.

Total current of all signals, max.

Number of signal paths

Connection data (supply)

Wire connection method

Clamping range, rated connection, min.

Clamping range, rated connection, max.

Number of terminals

Connection data (signal

Plug type

General data

Ambient temperature (operational)

Storage temperature

Humidity

UL 94 flammability rating

Approvals

Insulation coordinates

Pollution degree

Overvoltage category

Impulse withstand voltage

Rated voltage Protection degree

24 V DC ± 20 %
Green LED
24 V
30 V
125 mA
1 A
1 A
8

PUSH	l .	
0.13 r	n ²	
1.5 m	2	
4 (+,+	·,-)	

10-pole plug according to DIN EN 60603-13, long locking lever

-40 °C 60 °C

-40 °C...85 °C

5...95% (indoor), $T_u = 40^{\circ}$ C, without condensation

V-0

CE; cULus; DETNORVER; UKCA

2

1.5 kV 32 V

62 / 51 / 43

IP20 in installed state

Installation output

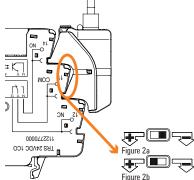


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on output (11/14).

Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on output (11/14).

Dimensions

Depth x width x height

mm

Note

Ordering data

 Type
 Qty.
 Order No.

 TIA F10
 1
 1463520000

Note

Suitable for 6.4 mm wide TERMSERIES socket

Accessories

Note

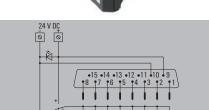
Interface cables can be found in catalogue 4.5 - PLC / DCS System Cabling & Migration Solutions

TERMSERIES Interface adapters

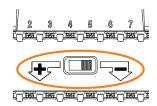
- Suitable for input and output logic
- Version for 6.4 mm TERMSERIES socket
- User-friendly and clear marking
- 15-pole Sub-D plug-in connector according to DIN 41652 / IEC 60807

TIA SUBD 15S





Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

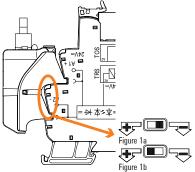


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).

Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Technical data

Supply

Voltage supply Status display

Signals

Rated voltage

Voltage, max.

Rated current (per signal path)

Current (per signal path), max.

Total current of all signals, max.

Number of signal paths

Connection data (supply)

Wire connection method

Clamping range, rated connection, min.

Clamping range, rated connection, max.

Number of terminals

Connection data (signal

Plug type

General data

Ambient temperature (operational)

Storage temperature

Humidity

UL 94 flammability rating

Approvals

Insulation coordinates

Pollution degree

Overvoltage category Impulse withstand voltage

Rated voltage

Protection degree

24 V DC ± 20 %
Green LED
24 V
30 V
125 mA
1 A
1 A
8
PUSH IN
0.13 mm ²

2 (+,-)			

Sub-D, 15-pole, DIN 41652 / IEC 60807

-40 °C 60 °C

1.5 mm²

-40 °C...85 °C

5...95% (indoor), $T_u = 40^{\circ}$ C, without condensation

V-0

CE; cULus; DETNORVER; UKCA

2

1.5 kV

32 V

52 / 51 / 43

mm

IP20 in installed state

Installation output

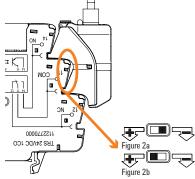


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on output (11/14).

Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on output (11/14).

Dimensions

Depth x width x height

Note

Ordering data

Туре	Qty.	Order No.
TIA SUBD 15S	1	1463530000

Note

Suitable for 6.4 mm wide TERMSERIES socket

Accessories

Note

Interface cables can be found in catalogue 4.5 - PLC / DCS System Cabling & Migration Solutions

3043770000 **Weidmüller ₹ B.107**

TERMSERIES Interface adapters

- · Suitable for input and output logic
- · Version for 12.8 mm TERMSERIES socket
- . Supply connections (PUSH IN) in double version for supply voltage bridging
- · User-friendly and clear marking
- 10-pole connecting plug according to DIN EN 60603-13

TIAL F10

24 V DC ± 20 %

Green LED

24 V

30 V

1 A

1 A

8

125 mA

PUSH IN

0.13 mm²

1.5 mm²

4 (+,+,-,-)

-40 °C 60 °C

-40 °C...85 °C

Ш

1.5 kV

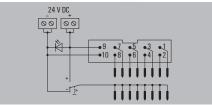
32 V

IP20 in installed state

62 / 102 / 43

CE; cULus; DETNORVER; UKCA

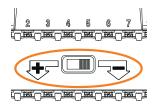




10-pole plug according to DIN EN 60603-13, long locking lever

5...95% (indoor), $T_u = 40^{\circ}$ C, without condensation

Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

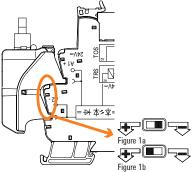
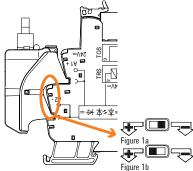


Figure 1a: Positive-switching logic: Potential change-over

switch to "+", installation on 24 V UC input (A1/A2).



switch to "-", installation on 24 V DC input (A1/A2). Figure 1b: Negative-switching logic: Potential change-over

Installation output

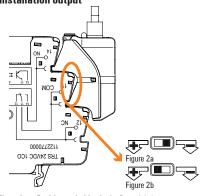


Figure 2a: Positive-switching logic: Potential change-over switch to "+", installation on output (11/14).

Negative-switching logic: Potential change-over Figure 2b: switch to "-", installation on output (11/14).

Technical data

Voltage supply Status display

Signals

Rated voltage

Voltage, max.

Rated current (per signal path)

Current (per signal path), max.

Total current of all signals, max.

Number of signal paths

Connection data (supply)

Wire connection method

Clamping range, rated connection, min.

Clamping range, rated connection, max.

Number of terminals

Plug type

General data

Ambient temperature (operational)

Storage temperature

Humidity

UL 94 flammability rating

Approvals

Insulation coordinates

Pollution degree

Overvoltage category

Impulse withstand voltage

Rated voltage Protection degree

Depth x width x height mm

Note

Ordering data

Note

Accessories

Note

Type Order No. TIAL F10 1463540000

Suitable for 12.8 mm wide TERMSERIES socket

Interface cables can be found in catalogue 4.5 - PLC / DCS System Cabling & Migration Solutions

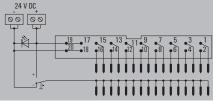
Weidmüller 🏖 B.108 3043770000

TERMSERIES Interface adapters

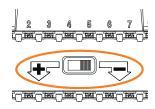
- · Suitable for input and output logic
- Version for 6.4 mm TERMSERIES socket
- Supply connections (PUSH IN) in double version for supply voltage bridging
- · User-friendly and clear marking
- 20-pole connecting plug according to DIN EN 60603-13

TIAL F20





Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

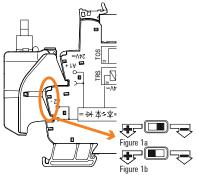


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).

Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Technical data

Supply

Voltage supply Status display

Signals

Rated voltage

Voltage, max.

Rated current (per signal path)

Current (per signal path), max.
Total current of all signals, max.

Number of signal paths

Connection data (supply)

Wire connection method

Clamping range, rated connection, min.

Clamping range, rated connection, max.

Number of terminals

Connection data (signa

Plug type

General data

Ambient temperature (operational)

Storage temperature

Humidity

UL 94 flammability rating

Approvals

Insulation coordinates

Pollution degree

Overvoltage category

Impulse withstand voltage

Rated voltage Protection degree 24 V DC ± 20 % Green LED

24 V

30 V 60 mA 1 A

16 PUSH IN

0.13 mm² 1.5 mm²

4 (+,+,-,-)

20-pole plug according to DIN EN 60603-13, long locking lever

-40 °C...60 °C

-40 °C...85 °C

5...95% (indoor), $T_u = 40$ °C, without condensation

V-0

CE; cULus; DETNORVER; UKCA

2

1.5 kV

32 V

IP20 in installed state

Installation output

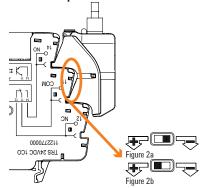


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on output (11/14).

Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on output (11/14).

Dimension

Depth x width x height

mm

Note

Ordering data

Type
TIAL F20

62 / 102 / 43

Note

Suitable for 6.4 mm wide TERMSERIES socket

Accessories

Note

Interface cables can be found in catalogue 4.5 - PLC / DCS System Cabling & Migration Solutions

3043770000 **Weidmüller ₹ B.109**

Order No.

1463550000

В

CUBESERIES – industrial relay modules from Europe PUSH IN and screw connections for quick installation

The CUBESERIES relay modules from Europe reliably switch small loads, decouple system parts and multiply signals in mechanical engineering as well as in process and energy technology. They impress with their durability and robust design.

They also offer relay modules with the contact versions 1 CO contact (16 A) and 2 CO contacts (8 A) from 15.6 mm width, as well as with 2 CO contacts (12 A) and 4 CO contacts (7 A) from a width of 27 mm. The relay sockets with PUSH IN and various cross-connections enable simple wiring, optimised for use in industrial automation.

C € c**91**2 us



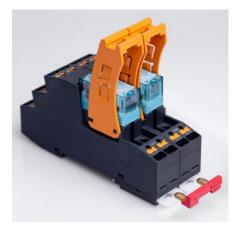
Easy to use with screwdrivers

Both clamping points can be opened in parallel. The PUSH IN connection enables the use of industry-proven screwdrivers from 0.6×3.5 mm to 1.0×5.5 mm. This enables maintenance work to be carried out quickly and efficiently.



Easily accessible test points

The PUSH IN sockets have an additional test point, which makes maintenance much easier, since the pushers of the PUSH IN connections mean that there are no metal surfaces available for contacting measuring tips.



Variety of cross-connections

The PUSH IN sockets impress with their wide range of cross-connection options. The cross-connectors for the input side of the relay can simply be plugged in for the A1/A2 connections without covering the wire connection.

Fast wiring with PUSH IN

The wiring time is significantly reduced by the PUSH IN connection sockets. In addition, the pusher prevents incorrect operation of the connection.

Lockable test buttons

The test buttons (AC = orange, DC = blue) enable simple simulation of digital input and output signals. This allows machines and systems to be tested step by step during commissioning and maintenance.

International approvals

The internationally required cURus and CSA approvals enable use in systems for the American and Canadian markets.



Extensive accessories

Various accessories, such as the metal mounting brackets for applications subject to vibration, LED modules with red and green status LEDs and the protection modules with RC filters and varistors enable use in a wide range of applications.

Relay modules from a width of 15.6 mm

CUBESERIES offers relay modules from 15.6 mm width with the contact versions 1 CO contact (16 A) and 2 CO contacts (8 A), as well as with 2 CO contacts (12 A) and 4 CO contacts (7 A) from a width of 27 mm.

Retaining clip with marker holder

The plastic retaining clips have an ejector lever function and are fitted with a marker holder. This makes the retaining clips compatible with a wide range of marker systems on the market.

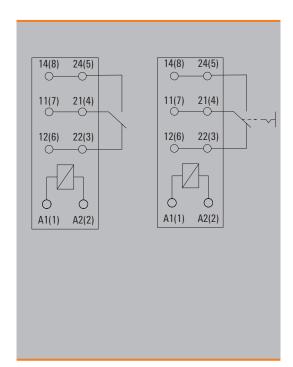
3043770000 **Weidmüller 3 B.111**

CRI relay

1 CO contact, AC/DC coil

- Versions with built-in LED or test button (AC-coil: orange, DC-coil: blue)
- Coloured housings at versions without test button (AC coil: orange, DC coil: blue)



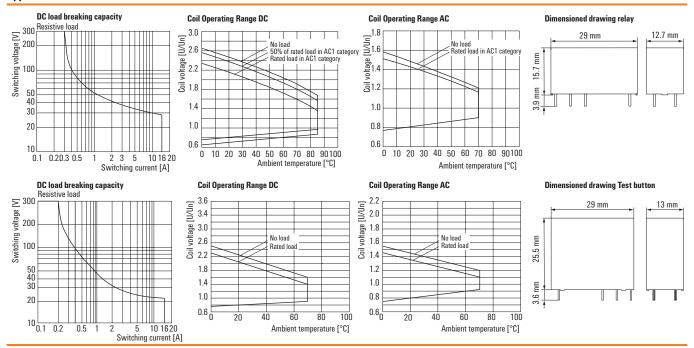


Technical data

Load side					
Rated switching voltage / Continuous current	250 V AC / 16 A				
Max. switching voltage, AC	250 V				
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V				
Mechanical service life	3 x 10 ⁷ switching cycles				
Max. switching frequency at rated load	0.1 Hz				
General data					
Ambient temperature (operational)	-20 °C70 °C				
Storage temperature	-40 °C85 °C				
Humidity					
Approvals	CSA; cURus				
Insulation coordinates					
Rated voltage	250 V				
Impulse withstand voltage	4 kV (1.2/50 μs)				
Dielectric strength for control side - load side	5 kV _{eff} / 1min				
Dielectric strength of neighbouring contacts					
Dielectric strength to mounting rail					
Clearance and creepage distances for control side - load side	≥ 10 mm				
Overvoltage category	III				
Pollution degree	3				

Dimensions	Plug-in connection
Depth x width x height	see dimensioned drawing
N .	
Note	Further technical data can be found at eshop.weidmueller.com

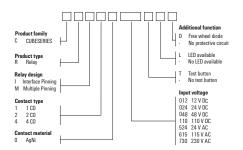
Applications



3.112 Weidmüller ₹ 3043770000

CRI relay 1 CO contact, AC/DC coil

Type code CUBESERIES relay versions



Ordering data		12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 33.3 mA	/ 16.7 mA	/ 8.3 mA	/ 3.5 mA
Power rating		400 mW	400 mW	400 mW	400 mW
Ordering data					
Standard	Туре	CRI10012	CRI10024	CRI10048	CRI10110
	Order No.	3052280000	3052290000	3052300000	3052310000
with test button	Туре	CRI10012T	CRI10024T	CRI10048T	CRI10110T
	Order No.	3052350000	3052360000	3052370000	3052380000
	Туре				
	Order No.				
	Туре				
	Order No.				

Note				
Ordering data		24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Control side				
Rated control voltage	_	24 V AC	115 V AC	230 V AC
Rated current AC / DC	_	31.3 mA /	6.6 mA /	3,3 mA /
Power rating		0.75 VA	0.75 VA	0.75 VA
Ordering data				
Standard	Туре	CRI10524	CRI10615	CRI10730
	Order No.	3052320000	3052330000	3052340000
with test button	Туре	CRI10524T	CRI10615T	CRI10730T
	Order No.	3052390000	3052400000	3052410000
	Type			
	Order No.			
	Туре			
	Order No.			

Note		

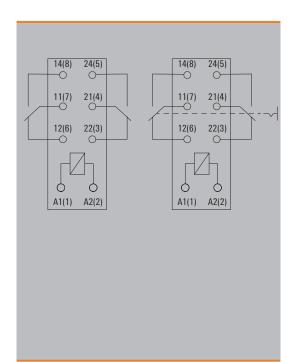
3043770000 **Weidmüller ₹ B.113**

CRI relay

2 CO contact, AC/DC coil

- Versions with built-in LED or test button (AC-coil: orange, DC-coil: blue)
- Coloured housings at versions without test button (AC coil: orange, DC coil: blue)



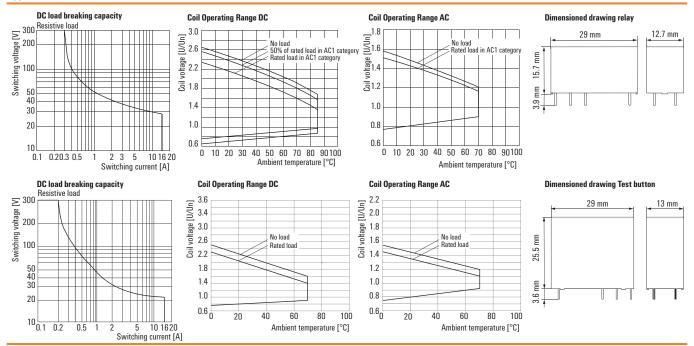


Technical data

250 V AC / 8 A
250 V
10 mA @ 12 V, 100 mA @ 5 V
3 x 10 ⁷ switching cycles
0.1 Hz
-20 °C70 °C
-40 °C85 °C
CSA; cURus
250 V
4 kV (1.2/50 μs)
5 kV _{eff} / 1min
2.5 kV _{eff} / 1 Min.
≥ 10 mm
III
3

Dimensions	Plug-in connection
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop, weidmueller, com
	'

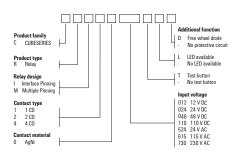
Applications



B.114 Weidmüller ₹2 3043770000

CRI relay 2 CO contact, AC/DC coil

Type code CUBESERIES relay versions



Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 33.3 mA	/ 16.7 mA	/ 8.3 mA	/ 3.5 mA
Power rating		400 mW	400 mW	400 mW	400 mW
Ordering data					
Standard	Туре	CRI20012	CRI20024	CRI20048	CRI20110
	Order No.	3052420000	3052430000	3052440000	3052450000
with test button	Туре	CRI20012T	CRI20024T	CRI20048T	CRI20110T
	Order No.	3052500000	3052510000	3052520000	3052530000
	Туре				
	Order No.				
	Туре				
	Order No.				

Note				
Ordering data		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC	_	31.3 mA /	6.6 mA /	3,3 mA /
Power rating		0.75 VA	0.75 VA	0.75 VA
Ordering data				
Standard	Туре	CRI20524	CRI20615	CRI20730
	Order No.	3052460000	3052470000	3052490000
with test button	Type	CRI20524T	CRI20615T	CRI20730T
	Order No.	3052540000	3052550000	3052560000
	Туре			
	Order No.			
	Type			
	Order No.			

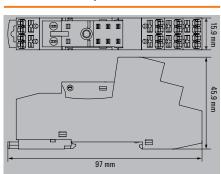
Note			

3043770000 **Weidmüller 3 B.115**

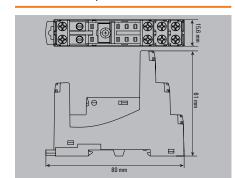
R

Accessories for CRI relays

Socket with PUSH IN connection, 1 CO contact



Socket with screw connection , 1 CO contact



Technical data

Load side

Rated switching voltage

Max. switching voltage, AC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

250 V AC
300 V
8 A
-20 °C70 °C
CE; CSA; cURus
IP20
5 kV _{eff} / 1min
3 KV _{eff} / 1 Min.
417

4 kV

10 mm

1.5 / 0.5 / 1.5 mm²

250 V AC
300 V
8 A
-40 °C70 °C
CE; CSA; cURus
IP20
5 kV _{eff} / 1min
3 KV _{eff} / 1 Min.
6 kV
1.5 / / 1.5 mm ²
10 mm

Ordering data

	Plug-in module on TS35 terminal rail
Note	

Туре	Qty.	Order No.
CSI P 2CO	20	3052570000

Туре	Qty.	Order No.
CSI S 2CO	10	3052590000

Accessories

CLO22-COUNTECTOL			
	Screw connection, grey		
	PUSH IN connection, red		
	PUSH IN connection, blue		
	PUSH IN connection, red		
	PUSH IN connection, blue		
Retaining clip			
	Plastic retaining bracket with marker holder		
	Metal retaining clin for relay with test hutton		

Metal bracket for relay without test button

Туре	Qty.	Order No.
CXI CCS 8P GY	2	3052620000
CXI CCP 2P RD	20	3052650000
CXI CCP 2P BL	20	3052660000
CXI CCP 8P RD	10	3052690000
CXI CCP 8P BL	10	3052700000
CXI CLIP P	10	3052710000
CXI CLIP HM	10	3052640000
CXI CLIP I M	25	3052630000

Type Qty.	Order No.
CXI CCS 8P GY 2	3052620000
CXI CCP 2P RD 20	3052650000
CXI CCP 2P BL 20	3052660000
CXI CCP 8P RD 10	3052690000
CXI CCP 8P BL 10	3052700000
CXI CLIP P 10	3052710000
CXI CLIP HM 10	3052640000
CXI CLIP LM 25	3052630000

Note

3043770000 **Weidmüller ₹ B.117**

CRM relay

2 CO contact, AC/DC coil

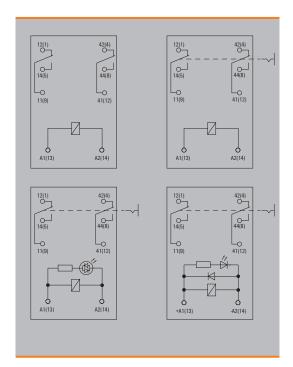
- Coloured test buttons at versions with test buttons (AC coil: orange, DC coil: blue)
- Coloured blind plugs at versions without test buttons (AC coil: orange, DC coil: blue)
- Optional available with and without integrated green status LED
- · Versions with integrated free-wheeling diode









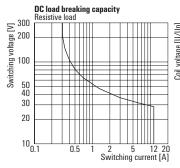


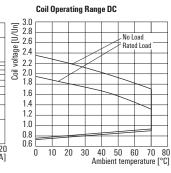
Technical data

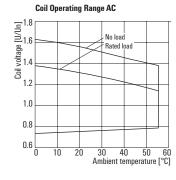
Load side				
Rated switching voltage / Continuous current	250 V AC / 12 A			
Max. switching voltage, AC	250 V			
Inrush current				
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V			
Contact type	2 CO contact (AgNi)			
Mechanical service life	2 x 10 ⁷ switching cycles			
Max. switching frequency at rated load	0.1 Hz			
General data				
Ambient temperature (operational)	-40 °C70 °C			
Storage temperature	-40 °C85 °C			
Humidity	25 °C / 95 % rel. humidity, no condensation			
Approvals	CSA; cURus			
Insulation coordinates				
Rated voltage	250 V			
Impulse withstand voltage	4 kV (1.2/50 μs)			
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min			
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min			
Dielectric strength to mounting rail				
Clearance and creepage distances for control side - load side				
Overvoltage category	III			
Pollution degree	3			

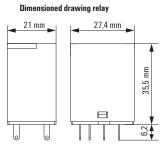
Dimensions		Plug-in connection
Depth x width x height	mm	35.5 / 21 / 27.4
Note	Further te	echnical data can be found at eshop weidmueller.com

Applications

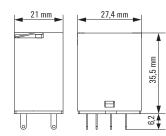








Dimensioned drawing Test button



3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000

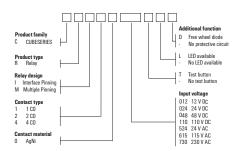
CRM relay 2 CO contact, AC/DC coil

with test button + LED

Type Order No.

Type Order No.

Type code CUBESERIES relay versions



Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 75 mA	/ 37.8 mA	/ 18.5 mA	/ 8.3 mA
Power rating		0.9 W	0.9 W	0.9 W	0.9 W
Ordering data					
Standard	Туре	CRM20012	CRM20024	CRM20048	CRM20110
	Order No.	3052720000	3052730000	3052740000	3052750000
with test button	Type	CRM20012T	CRM20024T	CRM20048T	CRM20110T
	Order No.	3052790000	3052800000	3052810000	3052820000
with test button + LED	Type	CRM20012TLD	CRM20024TLD	CRM20048TLD	CRM20110TLD
+ Free-wheel diode	Order No.	3052860000	3052870000	3052880000	3052890000
	Туре				
	Order No.				

Note				
Ordering data		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC	_	69 mA /	14 mA /	7.1 mA /
Power rating	-	1.63 VA	1.63 VA	1.63 VA
Ordering data				
Standard	Туре	CRM20524	CRM20615	CRM20730
	Order No.	3052760000	3052770000	3052780000
with test button	Type	CRM20524T	CRM20615T	CRM20730T
	Order No.	3052830000	3052840000	3052850000

Vote			

CRM20524TL

3052900000

3043770000 **Weidmüller 3 B.119**

CRM20615TL

3052910000

CRM20730TL

3052920000

CRM relay

4 CO contact, AC/DC coil

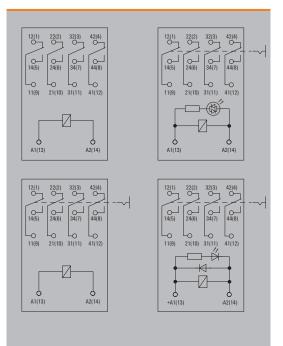
- Coloured test buttons at versions with test buttons (AC coil: orange, DC coil: blue)
- Coloured blind plugs at versions without test buttons (AC coil: orange, DC coil: blue)
- Optional available with and without integrated green status LED
- · Versions with integrated free-wheeling diode









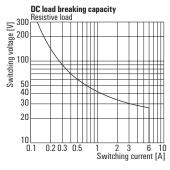


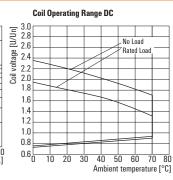
Technical data

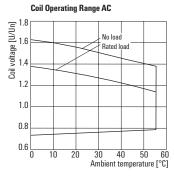
Load side	
Rated switching voltage / Continuous current	250 V AC / 7 A
Max. switching voltage, AC	250 V
Inrush current	
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Contact type	4 CO contact (AgNi)
Mechanical service life	2 x 10 ⁷ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	25 °C / 95 % rel. humidity, no condensation
Approvals	CSA; cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	
Overvoltage category	Ш
Pollution degree	2

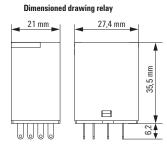
Dimensions		Plug-in connection
Depth x width x height	mm	35.5 / 21 / 27.4
Note	Further te	echnical data can be found at eshop weidmueller.com

Applications

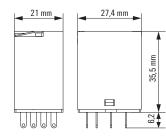








Dimensioned drawing Test button



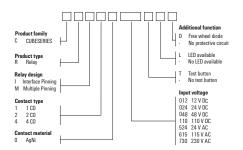
B.120 *Weidmüller* **₹** 3043770000

CRM relay 4 CO contact, AC/DC coil

Type Order No.

Type Order No.

Type code CUBESERIES relay versions



Ordering data		12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 75 mA	/ 37.8 mA	/ 18.5 mA	/ 8.3 mA
Power rating		0.9 W	0.9 W	0.9 W	0.9 W
Ordering data					
Standard	Туре	CRM40012	CRM40024	CRM40048	CRM40110
	Order No.	3052930000	3052940000	3052950000	3052960000
with test button	Type	CRM40012T	CRM40024T	CRM40048T	CRM40110T
	Order No.	3053000000	3053010000	3053020000	3053030000
with test button + LED	Type	CRM40012TLD	CRM40024TLD	CRM40048TLD	CRM40110TLD
+ Free-wheel diode	Order No.	3053070000	3053080000	3053090000	3053100000
	Type				
	Order No.				

Note				
Ordering data		24 V AC 4C0	115 V AC 4CO	230 V AC 4CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC	_	69 mA /	14 mA /	7.1 mA /
Power rating	_	1.63 VA	1.63 VA	1.63 VA
Ordering data				
Standard	Туре	CRM40524	CRM40615	CRM40730
	Order No.	3052970000	3052980000	3052990000
with test button	Туре	CRM40524T	CRM40615T	CRM40730T
	Order No.	3053040000	3053050000	3053060000
with test button + LED	Туре	CRM40524TL	CRM40615TL	CRM40730TL

Note			

3053110000

Weidmüller **3**€ B.121 3043770000

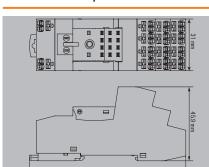
3053120000

3053130000

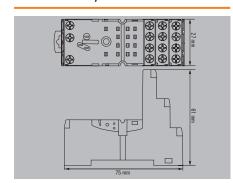
B

Accessories for CRM relays

Socket with PUSH IN connection, 4 CO contact



Socket with screw connection , 4 CO contact



Technical data

Load side

Rated switching voltage Max. switching voltage, AC Continuous current

General data

Ambient temperature (operational)

Approvals

Insulation coordinates

Protection degree

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.) Stripping length, rated connection

Stripping rengtii, rated connection

Note

250 V AC
300 V
8 A
-20 °C70 °C
CE; CSA; cURus
IP20
4 kV _{eff} / 1 Min.
3 KV _{eff} / 1 Min.
3 kV
1.5 / 0.5 / 1.5 mm ²
8 mm

300 V
6 A
-40 °C70 °C
CE; CSA; cURus
IP20
4 kV _{eff} / 1 Min.
3 KV _{eff} / 1 Min.
3 kV
1.5 / / 1.5 mm ²

Ordering data

	Plug-in module on TS35 terminal rail
Note	

Туре	Qty.	Order No.
CSM P 4CO	10	3053140000

Туре	Qty.	Order No.
CSM S 4CO	10	3053160000

Accessories

Gross-connector	
	Screw connection, grey
	PUSH IN connection, red
	PUSH IN connection, blue
	PUSH IN connection, red
B - 11 B	POSH IN COINIECTION, TEU
Retaining clip	
	Plastic retaining bracket with marker holder
	Metal retaining clip
2 pole jumper	
. , .	
Free-wheeling diode	
Status LED + Free-wh	eeling diode
Status LED	
RC element	
no elellielli	
Varistor	

Туре	Qty.	Order No.
CXM CCS 6P GY	2	3053180000
CXM CCP 2P RD	20	3053220000
CXM CCP 2P BL	20	3053230000
CXM CCP 8P RD	10	3053200000
CXM CLIP P	10	3053240000
CXM CLIP M	25	3053190000
CXX JMP 2P RD	30	3053250000
CXX JMP 2P BL	30	3053260000
CXX D 21N	20	3053270000
CXX LD 41R	20	3053290000
CXX LD 41G	20	3053310000
CXX LD 42R	20	3053320000
CXX LD 42G	20	3053340000
CXX L 61R	20	3053410000
CXX L 61G	20	3053420000
CXX RC 51	20	3053370000
CXX RC 52	20	3053390000
CXX RC 53	20	3053400000
CXX V 71	20	3053470000
CXX V 72	20	3053480000
CXX V 73	20	3053490000

Туре	Qty.	Order No.
CXM CCS 6P GY	2	3053180000
CXM CCP 2P RD	20	3053220000
CXM CCP 2P BL	20	3053230000
CXM CCP 8P RD	10	3053200000
CXM CLIP P	10	3053240000
CXM CLIP M	25	3053190000
CXX JMP 2P RD	30	3053250000
CXX JMP 2P BL	30	3053260000
CXX D 21N	20	3053270000
CXX LD 41R	20	3053290000
CXX LD 41G	20	3053310000
CXX LD 42R	20	3053320000
CXX LD 42G	20	3053340000
CXX L 61R	20	3053410000
CXX L 62G	20	3053440000
CXX RC 51	20	3053370000
CXX RC 52	20	3053390000
CXX RC 53	20	3053400000
CXX V 71	20	3053470000
CXX V 72	20	3053480000
CXX V 73	20	3053490000

You can find further accessories at eshop.weidmueller.com

Note

B.122 *Weidmüller* **₹** 3043770000

You can find further accessories at eshop.weidmueller.com

3043770000 **Weidmüller ₹ B.123**

D-SERIES

Universal industrial relays with high efficiency

D-SERIES relays have been developed for universal use in industrial automation applications where high efficiency is required. They have many innovative functions and are available in a particularly large number of variants and in a wide range of designs for the most diverse applications. Thanks to various contact materials (AgNi and AgSnO etc.), D-SERIES products are suitable for low, medium and high loads. Variants with coil voltages from 5 V DC to 380 V AC enable use with every conceivable control voltage.

With relays from the D-SERIES, you can separate input and output signals reliably and benefit from many well-considered details. For example, conventional relays can simply be plugged in and fixed with a retaining clip. The clever contact series connection and a built-in blowout magnet reduce contact erosion for loads up to 220 V DC/10 A, thus extending the service life. The optional status LED plus test button ensures convenient service operations. D-SERIES relays are available in DRI and DRM versions with either sockets for PUSH IN technology or screw connection and can be supplemented with a wide range of accessories. These include markers and pluggable protective circuits with LEDs or free-wheeling diodes.

3.124 Weidmüller ₹ 2545330000

Wide range of variants

Thanks to the different series and designs, D-SERIES products are suitable for a wide range of industrial applications. With the DRI, DRM and DRR series in the universal range as well as the DRL, DRW and DRH series in the application range, a suitable solution is available for almost all applications.

Solutions for special applications

Relay modules for switching high DC loads up to 220 V DC complete the range and make the D-SERIES an all-rounder.



Convenient relay KITs

Our fully assembled and functionally tested relay KITs save time during installation and simplify logistics. They can each be ordered under a single item number and they reduce the number of storage locations.

Long-lasting quality

D-SERIES relays are extremely robust. They can be ordered with a wide range of suitable contact types for various industrial applications, which significantly extends the service life.

For further information, visit our website www.weidmueller.com/dseries

2545330000 **Weidmüller ₹ B.125**

DRI KIT with PUSH IN connection

1 CO contact, AC/DC coil

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue)
- Bright status LED (AC coil: red / DC coil: green)



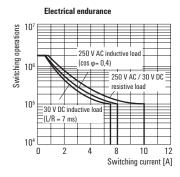
Circuit diagram DC coil LED+diode A183 AC coil LED: 12 14 00 00 11 12 14 00 00 11 11

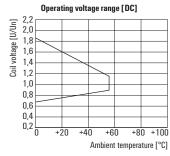
Technical data

Load side			
Rated switching voltage / Continuous current	250 V AC / 10 A		
Max. switching voltage, AC	250 V		
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		
Contact type	1 CO contact (AgSnO)		
Mechanical service life	10 x 10 ⁶ switching cycles		
Max. switching frequency at rated load	0.1 Hz		
General data			
Ambient temperature (operational)	-40 °C55 °C		
Storage temperature	-40 °C85 °C		
Humidity 3585 % rel. humidity, no condensation			
Approvals	CE; UKCA		
Insulation coordinates			
Rated voltage	300 V		
Impulse withstand voltage	5 kV (1.2/50 μs)		
Dielectric strength for control side - load side	5 kV _{eff} / 1min		
Dielectric strength of neighbouring contacts			
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load side	≥ 3 mm		
Overvoltage category	III		
Pollution degree	2		

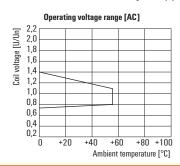
Dimensions		PUSH IN
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 1.5
Depth x width x height		see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com	

Applications

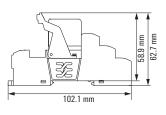




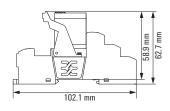
Resistive Load 300 8200 40 30 0.1 0.2 0.5 1 2 5 10 20 Switching current [A]



Dimensioned drawing without test button

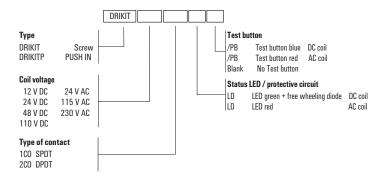


Dimensioned drawing with test button



B.126 *Weidmüller* **₹** 3043770000

DRI KIT with PUSH IN connection 1 CO contact, AC/DC coil



ordering data		24 V DC 1CO	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Control side					
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 21,8 mA	50 mA /	9.3 mA /	4,9 mA /
Power rating		530 mW	1.2 VA	1.1 VA	1.1 VA
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheeling diode			
Ordering data					
with test button	Туре	DRIKITP 24VDC 1CO LD/PB	DRIKITP 24VAC 1CO LD/PB	DRIKITP115VAC 1CO LD/PB	DRIKITP230VAC 1CO LD/PB
	Order No.	2576210000	2576250000	2576180000	2576160000
vithout test button	Туре	DRIKITP 24VDC 1CO LD	DRIKITP 24VAC 1CO LD	DRIKITP 115VAC 1CO LD	DRIKITP 230VAC 1CO LD
	Order No.	2576220000	2576260000	2575980000	2576280000
	Туре				
	Order No.				
	Туре				
	Order No.				
Note					

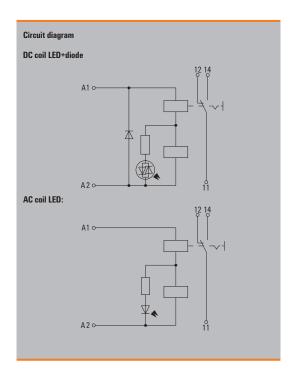
3043770000 **Weidmüller ₹ B.127**

DRI KIT with screw connection

1 CO contact, AC/DC coil

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue)
- Bright status LED (AC coil: red / DC coil: green)



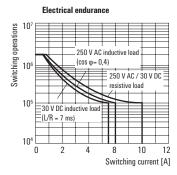


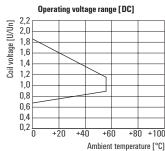
Technical data

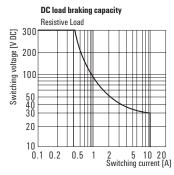
Load side			
Rated switching voltage / Continuous current	250 V AC / 10 A		
Max. switching voltage, AC	250 V		
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		
Contact type	1 CO contact (AgSnO)		
Mechanical service life	10 x 10 ⁶ switching cycles		
Max. switching frequency at rated load	0.1 Hz		
General data			
Ambient temperature (operational)	-40 °C55 °C		
Storage temperature	-40 °C85 °C		
Humidity 3585 % rel. humidity, no condensation			
Approvals	CE; UKCA		
Insulation coordinates			
Rated voltage	250 V		
Impulse withstand voltage	4.8 kV (1.2/50 μs)		
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.		
Dielectric strength of neighbouring contacts			
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load side	≥ 3 mm		
Overvoltage category	III		
Pollution degree	2		

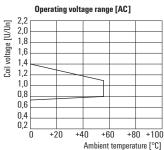
Dimensions		Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.25 / 4
Depth x width x height		see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com	

Applications

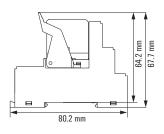




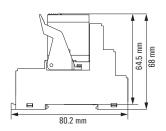




Dimensioned drawing without test button



Dimensioned drawing with test button

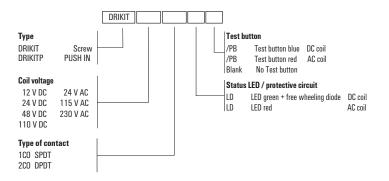


8 Weidmüller № 3043770000

DRI KIT with screw connection 1 CO contact, AC/DC coil

Note

3043770000



12 V DC 1CO 48 V DC 1CO 110 V DC 1CO 24 V DC 1CO **Ordering data** Control side Rated control voltage 12 V DC 24 V DC 48 V DC 110 V DC Rated current AC / DC / 44,4 mA / 21,8 mA / 11,2 mA / 4,8 mA Power rating 530 mW 530 mW 530 mW 530 mWStatus indicator Green LED Green LED Green LED Green LED Protective circuit Free-wheeling diode Free-wheeling diode Free-wheeling diode Free-wheeling diode Ordering data Туре DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 48VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB with test button Order No. 2476740000 2476750000 2476760000 2476770000 without test button Туре DRIKIT 12VDC 1CO LD DRIKIT 24VDC 1CO LD DRIKIT 48VDC 1CO LD DRIKIT 110VDC 1C0 LD 2476700000 2476340000 2476680000 2476690000 Order No. Type Order No. Type Order No.

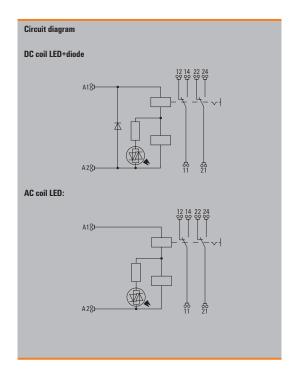
Vote				
ordering data		24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /
Power rating		1.2 VA	1.1 VA	1.1 VA
Status indicator		red LED	red LED	red LED
Protective circuit				
Protective circuit Ordering data				
	Туре	DRIKIT 24VAC 1CO LD/PB	DRIKIT 115VAC 1CO LD/PB	DRIKIT 230VAC 1C0 LD/PB
Ordering data	Type Order No.	DRIKIT 24VAC 1C0 LD/PB 2476780000	DRIKIT 115VAC 1CO LD/PB 2476790000	DRIKIT 230VAC 1C0 LD/PB 247680000
Ordering data				
Ordering data	Order No.	2476780000	2476790000	2476800000
Ordering data	Order No. Type	2476780000 DRIKIT 24VAC 1C0 LD	2476790000 DRIKIT 115VAC 1CO LD	2476800000 DRIKIT 230VAC 1C0 LD
Ordering data	Order No. Type Order No.	2476780000 DRIKIT 24VAC 1C0 LD	2476790000 DRIKIT 115VAC 1CO LD	2476800000 DRIKIT 230VAC 1C0 LD
Ordering data	Order No. Type Order No. Type	2476780000 DRIKIT 24VAC 1C0 LD	2476790000 DRIKIT 115VAC 1CO LD	2476800000 DRIKIT 230VAC 1C0 LD

DRI KIT with PUSH IN connection

2 CO contact, AC/DC coil

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue)
- Bright status LED (AC coil: red / DC coil: green)





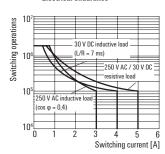
Technical data

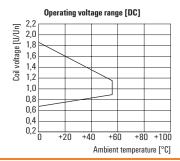
Load side			
Rated switching voltage / Continuous current	250 V AC / 5 A		
Max. switching voltage, AC	250 V		
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		
Contact type	2 CO contact (AgSnO)		
Mechanical service life	10 x 10 ⁶ switching cycles		
Max. switching frequency at rated load	0.1 Hz		
General data			
Ambient temperature (operational)	-40 °C55 °C		
Storage temperature	-40 °C85 °C		
Humidity 3585 % rel. humidity, no condensation			
Approvals	CE; UKCA		
Insulation coordinates			
Rated voltage	250 V		
Impulse withstand voltage	5 kV (1.2/50 μs)		
Dielectric strength for control side - load side	5 kV _{eff} / 1min		
Dielectric strength of neighbouring contacts	1.5 kV _{eff} /1 min.		
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load side	≥ 3 mm		
Overvoltage category	Ш		
Pollution degree	2		

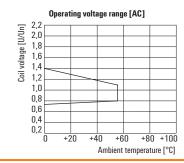
Dimensions		PUSH IN
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 1.5
Depth x width x height		see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com	

Applications

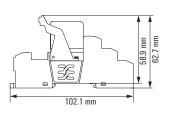
Electrical endurance



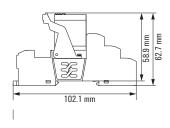




Dimensioned drawing without test button

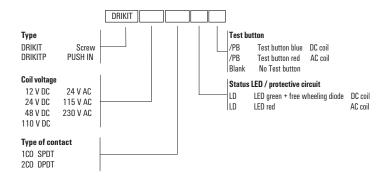


Dimensioned drawing with test button



B.130 *Weidmüller* **₹** 3043770000

DRI KIT with PUSH IN connection 2 CO contact, AC/DC coil



Ordering data		24 V DC 2CO	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Control side					
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 21,8 mA	50 mA /	9.3 mA /	4,9 mA /
Power rating		530 mW	1.2 VA	1.1 VA	1.1 VA
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Free-wheeling diode			
Ordering data					
with test button	Туре	DRIKITP 24VDC 2CO LD/PB	DRIKITP 24VAC 2CO LD/PB	DRIKITP115VAC 2CO LD/PB	DRIKITP230VAC 2CO LD/PB
	Order No.	2576190000	2576230000	2576170000	2576150000
vithout test button	Type	DRIKITP 24VDC 2CO LD	DRIKITP 24VAC 2CO LD	DRIKITP 115VAC 2CO LD	DRIKITP 230VAC 2C0 LD
	Order No.	2576200000	2576240000	2576290000	2576270000
	Type				
	Order No.				
	Type				
	Order No.				
Note					

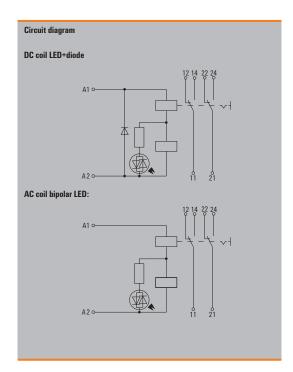
3043770000 **Weidmüller 3 B.131**

DRI KIT with screw connection

2 CO contact, AC/DC coil

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue)
- Bright status LED (AC coil: red / DC coil: green)





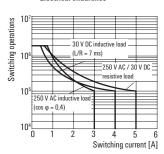
Technical data

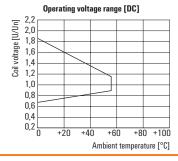
Load side			
Rated switching voltage / Continuous current	250 V AC / 5 A		
Max. switching voltage, AC	250 V		
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		
Contact type	2 CO contact (AgSnO)		
Mechanical service life	10 x 10 ⁶ switching cycles		
Max. switching frequency at rated load	0.1 Hz		
General data			
Ambient temperature (operational)	-40 °C55 °C		
Storage temperature	-40 °C85 °C		
Humidity	3585 % rel. humidity, no condensation		
Approvals	CE; UKCA		
Insulation coordinates			
Rated voltage	250 V		
Impulse withstand voltage	4.8 kV (1.2/50 μs)		
Dielectric strength for control side - load side	4 kV _{eff} / 1 min		
Dielectric strength of neighbouring contacts	1.5 kV _{eff} /1 min.		
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load side	≥ 3 mm		
Overvoltage category	III		
Pollution degree	2		

Dimensions		Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.25 / 4
Depth x width x height		see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com	

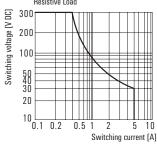
Applications

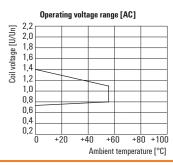
Electrical endurance



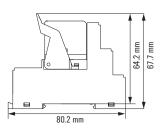


DC load braking capacity Resistive Load

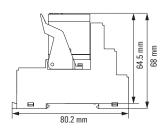




Dimensioned drawing without test button

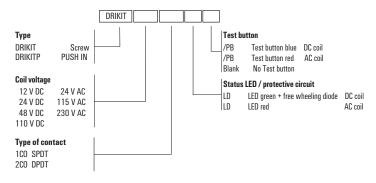


Dimensioned drawing with test button



32 Weidmüller ₹ 3043770000

DRI KIT with screw connection 2 CO contact, AC/DC coil



12 V DC 2CO 48 V DC 2CO 110 V DC 2CO 24 V DC 2CO **Ordering data** Control side Rated control voltage 12 V DC 24 V DC 48 V DC 110 V DC Rated current AC / DC / 44,4 mA / 21,8 mA / 11,2 mA / 4,8 mA Power rating 530 mW 530 mW 530 mW 530 mWStatus indicator Green LED Green LED Green LED Green LED Protective circuit Free-wheeling diode Free-wheeling diode Free-wheeling diode Free-wheeling diode Ordering data Туре DRIKIT 12VDC 2CO LD/PB DRIKIT 24VDC 2CO LD/PB DRIKIT 48VDC 2CO LD/PB DRIKIT 110VDC 2CO LD/PB with test button Order No. 2476880000 2476890000 2476900000 2476910000 without test button Туре DRIKIT 12VDC 2CO LD DRIKIT 24VDC 2CO LD DRIKIT 48VDC 2CO LD DRIKIT 110VDC 2C0 LD 2476840000 2476810000 2476820000 2476830000 Order No. Type Order No. Type Order No.

Note				
MOLE				
Ordering data		24 V AC 2C0	115 V AC 2CO	230 V AC 2CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /
Power rating		1.2 VA	1.1 VA	1.1 VA
Status indicator		red LED	red LED	red LED
Protective circuit				
Ordering data				
with test button	Туре	DRIKIT 24VAC 2CO LD/PB	DRIKIT 115VAC 2CO LD/PB	DRIKIT 230VAC 2CO LD/PB
	Order No.	2476920000	2476930000	2476940000
without test button	Type	DRIKIT 24VAC 2CO LD	DRIKIT 115VAC 2CO LD	DRIKIT 230VAC 2CO LD
	Order No.	2476850000	2476860000	2476870000
	Туре			
	Order No.			
	Type			
	Order No.			

Note

3043770000 **Weidmüller ₹** B.133

DRI relay

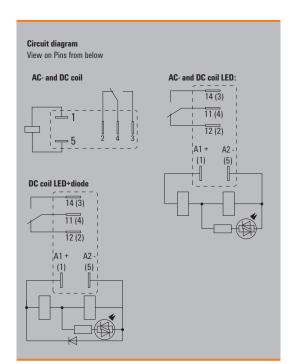
1 CO contact, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode







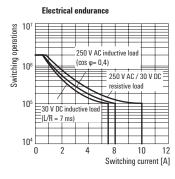


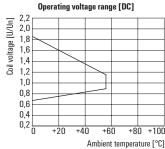
Technical data

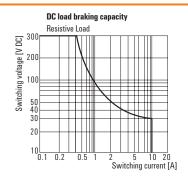
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C55 °C
Storage temperature	-40 °C85 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	2

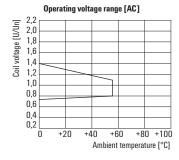
Dimensions	Flat blade connections (4.7 mm x 0.5 mm)
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

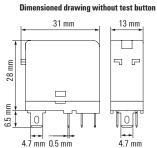
Applications

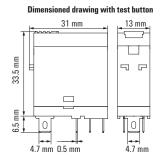






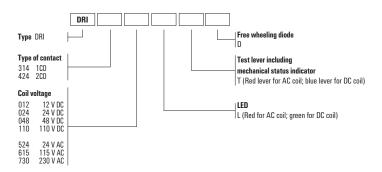






3.134 Weidmüller ₹ 3043770000

DRI relay 1 CO contact, AC/DC coil



Ordering data		12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating		530 mW	530 mW	530 mW	530 mW
Ordering data					
Standard	Туре	DRI314012	DRI314024	DRI314048	DRI314110L
	Order No.	7760056296	7760056297	7760056298	7760056306
with LED	Type	DRI314012L	DRI314024L	DRI314048L	DRI314110LD
	Order No.	7760056303	7760056304	7760056305	7760056313
with LED + free-wheeli	ng diode Type	DRI314012LD	DRI314024LD	DRI314048LD	DRI314110LTD
	Order No.	7760056310	7760056311	7760056312	7760056317
with test button + LED	Type	DRI314012LTD	DRI314024LTD	DRI314048LTD	
+ Free-wheel diode	Order No.	7760056314	7760056315	7760056316	

Note				
		24 V 40 400	14F V 40 400	220 V 40 4 00
Ordering data		24 V AC 1CO	115 V AC 1CO	230 V AC 1 CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /
Power rating		1.2 VA	1.1 VA	1.1 VA
Ordering data				
Standard	Type	DRI314524	DRI314615	DRI314730
	Order No.	7760056300	7760056301	7760056302
with LED	Type	DRI314524L	DRI314615L	DRI314730L
	Order No.	7760056307	7760056308	7760056309
with test button + LED	Type	DRI314524LT	DRI314615LT	DRI314730LT
	Order No.	7760056318	7760056319	7760056320
	Type			
	Order No.			
	0 1401 140.			

Note		

3043770000 **Weidmüller ₹ B.135**

Accessories for DRI relays

- · Flat design
- · DIN rail unlocked using screwdriver

Socket with **PUSH IN connection, 1 CO contact**

250 V AC

-40 °C...55 °C

-40 °C...85 °C

CE; cURus; UKCA

250 V

12 A

IP20

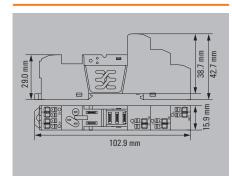
≥ 3 mm

10 mm

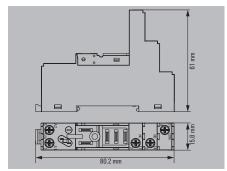
5 kV_{eff} / 1min

4.8 kV (1.2/50 μs)

1.5 / 0.14 / 1.5 mm²



Socket with clamping yoke connection, 1 CO contact





250 V AC	
250 V	
12 A	
-40 °C7	0°C
-40 °C8	5°C
CE; cURus	3
IP20	
≥ 3 mm	
$4 kV_{eff} / 1$	Min.
4.8 kV (1	.2/50 µs)
1.5 / 0.25	5 / 4 mm²
0.50.81	Vm
8 mm	

Technical data

Load side

Rated switching voltage

Max. switching voltage, AC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

Ordering data

	Plug-in module on TS35 terminal rail
Note	

Туре	Qty.	Order No.
SDI 1CO P	20	7760056364

Туре	Qty.	Order No.
SDI 1CO	10	7760056350

Accessories

LED module / protection modules

Free-wheeling diode 6 - 230 V DC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green

RC element 110 - 230 V AC; 4.7 $k\Omega$ / 10 nF RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

Retaining clip	
	Plastic retaining clip
	Plastic retaining bracket with marker holder
	Metal retaining clip for relay with test button
	Metal bracket for relay without test button

Marking tags white

Screwdriver

Standard, uninsulated Standard, insulated

-	0.	0 1 11
Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
SCM/SDI P CC	10	7760056366
SDI CLIP	10	7760056352
SDI CLIP P	10	7760056389
SDI CLIP HM	10	7760056390
SDI CLIP LM	10	7760056368
ESG 6/15 SDI MC NE WS	200	2558340000
SDS 0.4X2.5X75	1	2749320000
SDIS 0.4X2.5X75	1	2749790000

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	776005601
RIM 2 24/60VDC	10	7760056010
RIM 2 110/230VDC	10	776005601
RIM 3 6/24VUC	10	794001845
RIM 3 24/60VUC	10	776005601
RIM 3 110/230VUC	10	794001845
RIM 3 110/230VAC	10	776005601
RIM 3 110/230VAC LED	10	776005604
SRC-I QV S	10	113207000
SDI CLIP	10	776005635
SDI CLIP P	10	776005638
SDI CLIP HM	10	776005639
SDI CLIP LM	10	776005636
ESG 6/15 SDI MC NE WS	200	255834000
SDK PH1 X 80	1	274941000
SDIK PH1 X 80	1	274989000

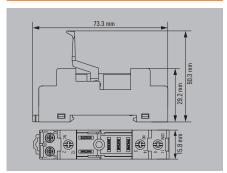
Note

Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🏖

Socket with pressure clamping plate, 1 CO contact









250 V AC
250 V
12 A
-40 °C70 °C
-40 °C85 °C
CE
IP20
≥ 3 mm
4 kV _{eff} / 1 Min.
4.8 kV (1.2/50 μs)
1.5 / 0.5 / 2.5 mm ²
0.50.8 Nm
8 mm

Туре	Qty.	Order No.
SDI 1CO F ECO	10	7760056348

Туре	Qty.	Order No.
1,100	Q.L.y.	Ordor No.
SDK PH1 X 80	1	2749410000
SDIK PH1 X 80	1	2749890000

LED and protective modules are not compatible with this base. Further accessories can be found on the article at eshop.weidmueller.com

3043770000

Weidmüller ₹ B.137

DRI relay

2 CO contacts, AC/DC coil

- Robust industrial plug-in connections
- Optional: latching / spring return operable test button with coloured control voltage identification (AC coil: red / DC coil: blue)
- Optional: Bright status LED (AC coil: red / DC coil: green)
- Optional: free-wheeling diode







Circuit diagram View on Pins from below AC- and DC coil AC- and DC coil LED: AC- and

Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C55 °C
Storage temperature	-40 °C85 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	5 kV _{eff} / 1min
Dielectric strength of neighbouring contacts	1.5 kV _{eff} /1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	Ш
Pollution degree	2

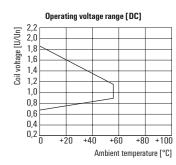
Dimensions	Flat blade connections (2.5 mm x 0.5 mm)
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

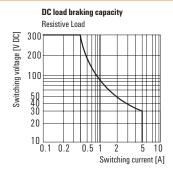
Applications

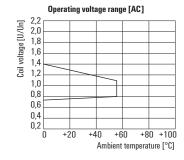
10³ 30 V DC inductive load (L/R - 7 ms) (L/R - 7 ms) 250 V AC / 30 V DC resistive load (cos φ - 0.4) 10⁴ 10⁴

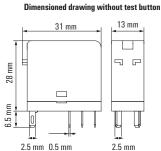
Switching current [A]

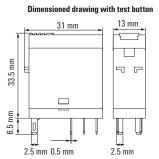
Electrical endurance







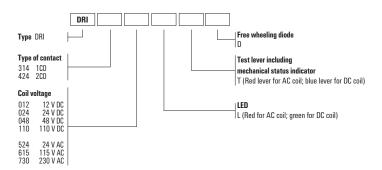




B.138 *Weidmüller ₹* 3043770000

DRI relay 2 CO contacts, AC/DC coil

Note



Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Control side					
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC		/ 44,4 mA	/ 21,8 mA	/ 11,2 mA	/ 4,8 mA
Power rating		530 mW	530 mW	530 mW	530 mW
Ordering data					
Standard	Туре	DRI424012	DRI424024	DRI424048	DRI424110
	Order No.	7760056321	7760056322	7760056323	7760056324
with LED	Туре	DRI424012L	DRI424024L	DRI424048L	DRI424110L
	Order No.	7760056328	7760056329	7760056330	7760056331
with LED + free-wheelin	ig diode Type	DRI424012LD	DRI424024LD	DRI424048LD	DRI424110LD
	Order No.	7760056335	7760056336	7760056337	7760056338
with test button + LED	Туре	DRI424012LTD	DRI424024LTD	DRI424048LTD	DRI424110LTD
+ Free-wheel diode	Order No.	7760056339	7760056340	7760056341	7760056342

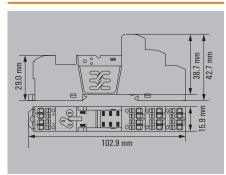
Note				
Ordering data		24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Control side				
Rated control voltage		24 V AC	115 V AC	230 V AC
Rated current AC / DC		50 mA /	9.3 mA /	4,9 mA /
Power rating		1.2 VA	1.1 VA	1.1 VA
Ordering data				
Standard	Type	DRI424524	DRI424615	DRI424730
	Order No.	7760056325	7760056326	7760056327
with LED	Type	DRI424524L	DRI424615L	DRI424730L
	Order No.	7760056332	7760056333	7760056334
with test button + LED	Type	DRI424524LT	DRI424615LT	DRI424730LT
	Order No.	7760056343	7760056344	7760056345
	Type			
	Order No.			

3043770000 **Weidmüller ₹ B.139**

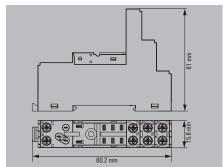
Accessories for DRI relays

- · Flat design
- · DIN rail unlocked using screwdriver

Socket with PUSH IN connection, 2 CO contact



Socket with clamping yoke connection, 2 CO contacts





250 V AC
250 V
8 A
-40 °C70 °C
-40 °C85 °C
CE; cURus
IP20
≥ 3 mm
4 kV _{eff} / 1 Min.
2.5 kV _{eff} / 1 Min.
4.8 kV (1.2/50 μs)
1.5 / 0.25 / 4 mm ²
0.50.8 Nm
8 mm



10 mm

250 V AC
250 V
8 A
-40 °C55 °C
-40 °C85 °C
CE; cURus; UKCA
IP20
≥ 3 mm
5 kV _{eff} / 1min
2.5 kV _{eff} / 1 Min.
4.8 kV (1.2/50 μs)
15/014/15 mm ²

Туре	Qty.	Order No.
SDI 2CO P	20	7760056365

Qty.	Order No.
10	7760056351

Technical data

Load side

Rated switching voltage

Max. switching voltage, AC Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

Ordering data

	Plug-in module on TS35 terminal rail
Note	

Accessories

LED module / protection modules

Free-wheeling diode 6 - 230 V DC
LED 6 - 24 V DC green and freewheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 110 - 230 V DC green and free-wheeling diode
LED 6 - 24 V UC green
LED 24 - 60 V UC green
LED 110 - 230 V UC green

RC element 110 - 230 V AC; 4.7 k Ω / 10 nF RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

Cross-connector

recanning only	
	Plastic retaining clip
	Plastic retaining bracket with marker holder

Plastic retaining bracket with marker holder Metal retaining clip for relay with test button Metal bracket for relay without test button

iviarking tags	
	white
CI-!	

Standard, uninsulated Standard, insulated

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
SCM/SDI P CC	10	7760056366
SDI CLIP	10	7760056352
SDI CLIP P	10	7760056389
SDI CLIP HM	10	7760056390
SDI CLIP LM	10	7760056368
ESG 6/15 SDI MC NE WS	200	2558340000
SDS 0.4X2.5X75	1	2749320000
SDIS 0.4X2.5X75	1	2749790000

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056019
RIM 2 24/60VDC	10	7760056010
RIM 2 110/230VDC	10	776005601
RIM 3 6/24VUC	10	794001845
RIM 3 24/60VUC	10	776005601
RIM 3 110/230VUC	10	794001845
RIM 3 110/230VAC	10	776005601
RIM 3 110/230VAC LED	10	776005604
SRC-I QV S	10	113207000
SDI CLIP	10	776005635
SDI CLIP P	10	776005638
SDI CLIP HM	10	776005639
SDI CLIP LM	10	776005636
ESG 6/15 SDI MC NE WS	200	255834000
SDK PH1 X 80	1	274941000
SDIK PH1 X 80	1	274989000

Note

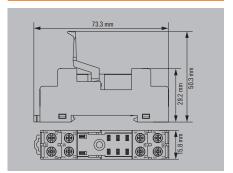
Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Note

B.140 Weidmüller 🏖

Socket with pressure clamping plate, 2 CO contacts









250 V AC
250 V
8 A
-40 °C70 °C
-40 °C85 °C
CE
IP20
≥ 3 mm
4 kV _{eff} / 1 Min.
2.5 kV _{eff} / 1 Min.
4.8 kV (1.2/50 μs)
1.5 / 0.5 / 2.5 mm ²
0.50.8 Nm
8 mm

Туре	Qty.	Order No.
SDI 2CO F ECO	10	7760056349

Туре	Qty.	Order No.
SDK PH1 X 80	1	2749410000
SDIK PH1 X 80	1	2749890000

LED and protective modules are not compatible with this base. Further accessories can be found on the article at eshop.weidmueller.com

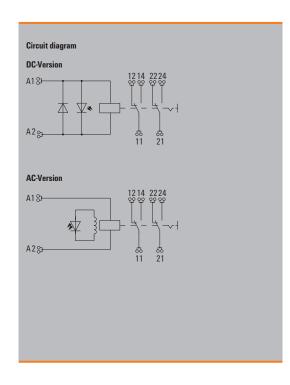
Weidmüller ₹ B.141

DRM KIT with PUSH IN connection

2 CO contact

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- · Mechanical status indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)



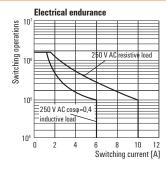


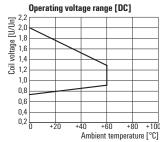
Technical data

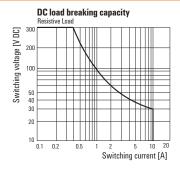
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	
Dielectric strength for control side - load side	1.8 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

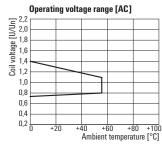
Dimensions	PUSH IN
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

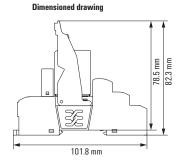
Applications

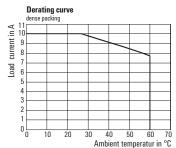






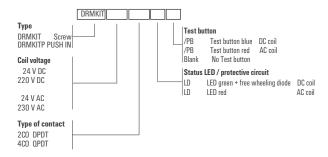






Weidmüller 🕏

DRM KIT with PUSH IN connection 2 CO contact



Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating

Status indicator Protective circuit

24 V DC
24 V DC
/ 36.9 mA
0.9 W
Green LED
Free-wheeling diode

24 V AC
24 V AC
62.4 mA (50 Hz) /
1.01.2VA (60HZ)
red LED

	115 V AC
	115 V AC
	12.6 mA (50 Hz), 10.8 mA (60 Hz) /
	1.01.2VA (60HZ)
	red LED
_	

230 V AC	
230 V AC	
6.1 mA (50 Hz), 5.2 mA (60 Hz) /	
1.01.2VA (60HZ)	
red LED	

with test button Type
Order No.
without test button Type
Order No.

DRMKITP 24VDC 2C0 LD/PB

2576120000

DRMKITP 24VDC 2C0 LD

2576110000

DRMKITP 24VAC 2C0 LD/PB

2576080000

DRMKITP 24VAC 2C0 LD

2576070000

DRMKITP115VAC 2C0 LD/PB

257600000

DRMKITP 115VAC 2C0 LD

2575990000

DRMKITP230VAC 2CO LD/PB

2576040000

DRMKITP 230VAC 2CO LD

2576030000

Note







Weidmüller ₹ B.143

DRM KIT with screw connection

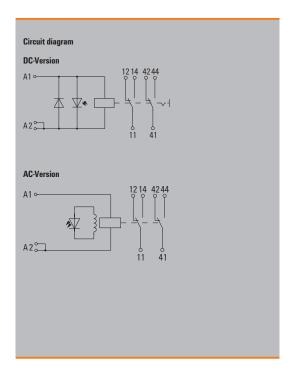
2 CO contacts

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- · Mechanical status indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)







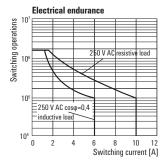


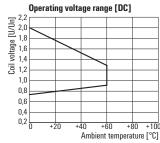
Technical data

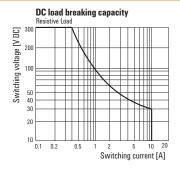
250 V AC / 10 A		
250 V		
10 mA @ 12 V, 100 mA @ 5 V		
20 x 10 ⁶ switching cycles		
0.1 Hz		
-40 °C60 °C		
-40 °C70 °C		
CE; UKCA		
Insulation coordinates		
250 V		
4.8 kV (1.2/50 μs)		
1.8 kV _{eff} /1 min.		
1 kV _{eff} / 1 min		
≥ 5.5 mm		
III		
2		

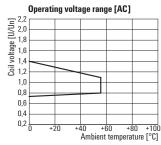
Dimensions	Screw connection
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

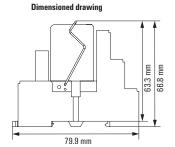
Applications

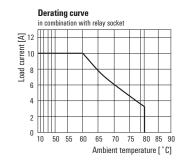






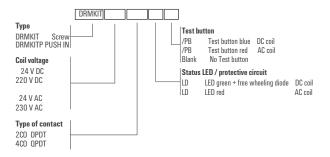






B.144 Weidmüller ₹ 3043770000

DRM KIT with screw connection 2 CO contacts



Ordering data

Control side

Protective circuit

Rated control voltage Rated current AC / DC Power rating Status indicator

24 V DC 2CO
24 V DC
/ 36.9 mA
0.9 W
Green LED
Free-wheeling diode

24	I V AC 2CO
	24 V AC
62.4 mA (50	Hz), 52.2 mA (60 Hz) /
1.0.	1.2VA (60HZ)
	red LED

230 V AC 2CO
230 V AC
6.1 mA (50 Hz), 5.2 mA (60 Hz) /
1.01.2VA (60HZ)
red LED

Ordering data

with test button Type
Order No.

without test button Type
Order No.

DRMKIT 220VDC 2CO LD/PB
1542470000
DRMKIT 220VDC 2C0 LD
1542370000

DRMKIT 24VAC 2CO LD/PB
1542480000
DRMKIT 24VAC 2CO LD
1542380000

DRMKIT 230VAC 2CO LD/PB
1542490000
DRMKIT 230VAC 2CO LD
1542390000

Note



3043770000 **Weidmüller ₹ B.145**

DRM KIT with PUSH IN connection

4 CO contact

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- · Mechanical status indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)



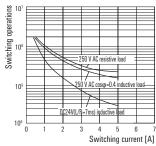
Technical data

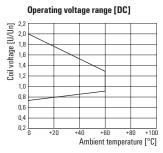
250 V AC / 5 A
250 V
10 mA @ 12 V, 100 mA @ 5 V
20 x 10 ⁶ switching cycles
0.1 Hz
-40 °C55 °C
-40 °C70 °C
3585 % rel. humidity, no condensation
CE; UKCA
250 V
1.8 kV _{eff} /1 min.
1 kV _{eff} / 1 min
≥ 3 mm
III
2

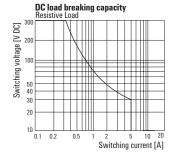
Dimensions	PUSH IN
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

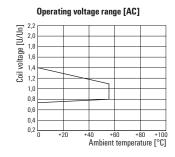
Applications

Electrical endurance

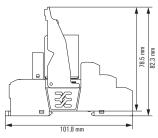


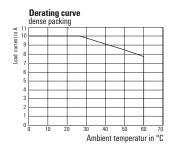






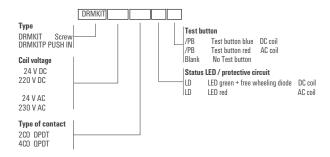
Dimensioned drawing





B.146 *Weidmüller* **₹** 3043770000

DRM KIT with PUSH IN connection 4 CO contact



Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating

Status indicator Protective circuit

24 V DC
24 V DC
/ 36.9 mA
0.9 W
Green LED
Free-wheeling diode

24 V AC
24 V AC
62.4 mA (50 Hz) /
1.01.2VA (60HZ)
red LED

1	115 V AC
	115 V AC
12.6 mA (50	Hz), 10.8 mA (60 Hz) /
1.0	.1.2VA (60HZ)
	red LED

230 V AC
230 V AC
6.1 mA (50 Hz), 5.2 mA (60 Hz) /
1.01.2VA (60HZ)
red LED

Ordering data

with test button Type
Order No.

without test button Type
Order No.

DRMKITP 24VDC 4CO LD/PB

2576140000

DRMKITP 24VDC 4CO LD

2576130000

DRMKITP 24VAC 4C0 LD/PB

2576100000

DRMKITP 24VAC 4C0 LD

2576090000

DRMKITP115VAC 4C0 LD/PB

2576020000

DRMKITP 115VAC 4C0 LD

2576010000

DRMKITP230VAC 4C0 LD/PB

2576060000

DRMKITP 230VAC 4C0 LD

2576050000

Note

3043770000



Weidmüller ₹ B.147

DRM KIT with screw connection

4 CO contacts

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input output
- · Mechanical status indicator
- Bright status LED (AC coil: red, DC coil: green)
- Optional: test button with coloured control voltage marking (AC coil: red, DC coil: blue)







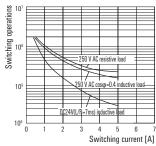
Technical data

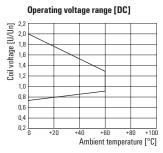
Load side	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4.8 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.8 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

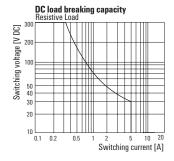
Dimensions	Screw connection
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

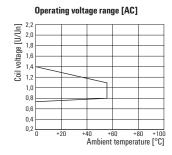
Applications

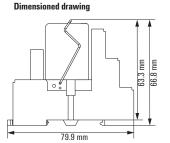
Electrical endurance

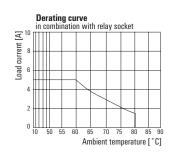






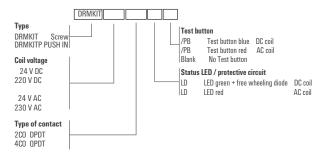






3.148 Weidmüller ₹ 3043770000

DRM KIT with screw connection 4 CO contacts



Ordering data

Control side

Protective circuit

Rated control voltage
Rated current AC / DC
Power rating
Status indicator

24 V DC 4CO
24 V DC
/ 36.9 mA
0.9 W
Green LED
Free-wheeling diode

220 V DC 4CO
220 V DC
/ 5.2 mA
1.2 W
Green LED
Free-wheeling diode

	24 V AC 4CO
	24 V AC
62.	4 mA (50 Hz), 52.2 mA (60 Hz) /
	1.01.2VA (60HZ)
	red LED

230 V AC 4CO
230 V AC
6.1 mA (50 Hz), 5.2 mA (60 Hz) /
1.01.2VA (60HZ)
red LED

Ordering data

with test button Type
Order No.

without test button Type
Order No.

DRMKIT 24VDC 4CO LD/PB
1542510000
DRMKIT 24VDC 4CO LD
1542410000

DRMKIT 220VDC 4CO LD/PB
1542520000
DRMKIT 220VDC 4C0 LD
1542420000

DRMKIT 24VAC 4CO LD/PB	
1542530000	
DRMKIT 24VAC 4CO LD	
1542430000	

DRMKIT 230VAC 4CO LD/PB
1542540000
DRMKIT 230VAC 4CO LD
1542450000

Note





Weidmüller ₹ B.149

DRM relay

2 CO contact, AC/DC coil

- Compact design combined with high switching capacity
- Wide range of coil voltages
- Optional test button (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional free-wheeling diode







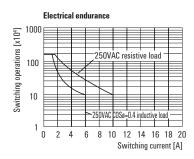
Circuit diagram View on pins from below AC- and DC coil DC coil LED 12(1) 42(4) 12(1) 42(4) 14(5) 44(8) 44(8) 14(5) 11 (9) 41(12) 11 (9) 41(12) A2(14) A1(13) A2(14) DC coil LED+diode AC coil LED 12(1) 42(4) 42(4) 14(5) 44(8) 14(5) 44(8) 11 (9) 41(12) 11 (9) 41(12) A2(14) A1(13)

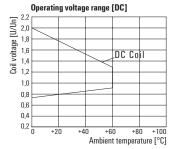
Technical data

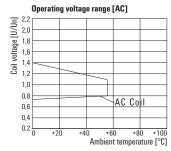
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Contact type	2 CO contact (AgNi flash gold-plated)
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	cURus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.8 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions	Plug-in connection
Depth x width x height	see dimensioned drawing
Note	Further technical data can be found at eshop.weidmueller.com

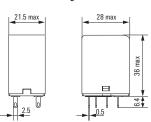
Applications

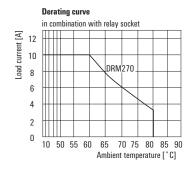






Dimensioned drawing

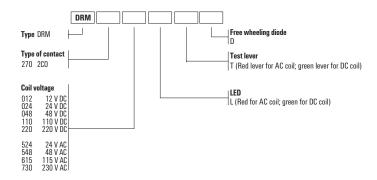




B.150 *Weidmüller* **₹** 3043770000

DRM relay 2 CO contact, AC/DC coil

Note



Ordering data		12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2C0
Control side						
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC		/ 75 mA	/ 37.8 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating		0.9 W	0.9 W	0.9 W	1.2 W	1.2 W
Pull-in/drop-out curren	t, typ.					
Ordering data						
Standard	Туре	DRM270012	DRM270024	DRM270048	DRM270110	DRM270220
(Order No.	7760056050	7760056051	7760056052	7760056053	7760056054
with LED	Type	DRM270012L	DRM270024L	DRM270048L	DRM270110L	DRM270220L
,	Order No.	7760056059	7760056060	7760056061	7760056062	7760056063
ι	Type	DRM270012LT	DRM270024LT	DRM270048LT	DRM270110LT	DRM270220LT
with test button + LED	i iype					
with test button + LED	Order No.	7760056068	7760056069	7760056070	7760056071	7760056072
with test button + LED	/1	7760056068	7760056069 DRM270024LD	7760056070	7760056071	7760056072



3043770000 **Weidmüller ₹ B.151**

Accessories for DRM relays

- Isolated input and output
- · Terminal rail can be unlocked with a screwdriver
- Wide assortment of functional modules

Socket with **PUSH IN connection, 2 CO contact**

250 V AC

-40 °C...55 °C

-40 °C...85 °C

CE; cURus; UKCA

250 V

12 A

IP20

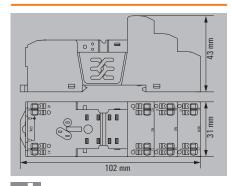
≥ 3 mm

10 mm

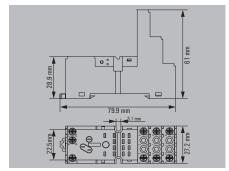
 $4 \text{ kV}_{\text{eff}} / 1 \text{ min}$

2.5 kV_{eff} / 1 Min.

1.5 / 0.14 / 1.5 mm²











250 V AC 250 V 12 A 40 °C70 °C 40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{ett} / 1 min 4 kV _{ett} / 1 min 4 kV (1.2/50 μs) / 0.5 / 2.5 mm² 0.50.8 Nm 7 mm	
250 V 12 A 40 °C70 °C 40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{ett} / 1 min 4 kV (1.2/50 µs) / 0.5 / 2.5 mm² 0.50.8 Nm	
12 A 40 °C70 °C 40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{ett} / 1 min 4 kV _{ett} / 1 min 4.8 kV (1.2/50 µs) / 0.5 / 2.5 mm² 0.50.8 Nm	250 V AC
-40 °C70 °C -40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{eff} / 1 min 4 kV _{eff} / 1 min 4.8 kV (1.2/50 µs) / 0.5 / 2.5 mm² 0.50.8 Nm	250 V
-40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{eff} / 1 min 4 kV _{eff} / 1 min 4 kV (1.2/50 μs) / 0.5 / 2.5 mm² 0.50.8 Nm	12 A
-40 °C70 °C CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{eff} / 1 min 4 kV _{eff} / 1 min 4 kV (1.2/50 µs) / 0.5 / 2.5 mm² 0.50.8 Nm	
CE; cURus; UKCA IP20 ≥ 5.5 mm 4 kV _{stt} / 1 min 4 kV _{stt} / 1 min 4 kV _{stt} / 2.50 μs) / 0.5 / 2.5 mm² 0.50.8 Nm	-40 °C70 °C
IP20 ≥ 5.5 mm 4 kV _{stt} / 1 min 4 kV _{stt} / 1 min 4.8 kV (1.2/50 μs) / 0.5 / 2.5 mm² 0.50.8 Nm	-40 °C70 °C
≥ 5.5 mm 4 kV _{ett} / 1 min 4 kV _{ett} / 1 min 4.8 kV (1.2/50 µs) / 0.5 / 2.5 mm ² 0.50.8 Nm	CE; cURus; UKCA
≥ 5.5 mm 4 kV _{ett} / 1 min 4 kV _{ett} / 1 min 4.8 kV (1.2/50 µs) / 0.5 / 2.5 mm ² 0.50.8 Nm	
4 kV _{et} / 1 min 4 kV _{et} / 1 min 4.8 kV (1.2/50 μs) / 0.5 / 2.5 mm ² 0.50.8 Nm	IP20
4 kV _{ett} / 1 min 4.8 kV (1.2/50 μs) / 0.5 / 2.5 mm ² 0.50.8 Nm	≥ 5.5 mm
4.8 kV (1.2/50 µs) / 0.5 / 2.5 mm ² 0.50.8 Nm	4 kV _{eff} / 1 min
/ 0.5 / 2.5 mm ² 0.50.8 Nm	4 kV _{eff} / 1 min
0.50.8 Nm	4.8 kV (1.2/50 μs)
0.50.8 Nm	
	/ 0.5 / 2.5 mm ²
7 mm	0.50.8 Nm
	7 mm

Technical data

Load side

Rated switching voltage

Max. switching voltage, AC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

LED module / protection modules

Note

Type Otv	Order No.
----------	-----------

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SCM 2C0 P	10	7760056362

Туре	Qty.	Order No.
SCM 2CO ECO	10	7760056263

Accessories

Free-wheeling diode 6 - 230 V DC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 110 - 230 V AC; 4.7 k Ω / 10 nF RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green Retaining clip Metal retaining clip Plastic retaining bracket with marker holder Marking tags white Cross-connector Screwdriver Standard, insulated

Standard, uninsulated

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
DRM/DRL CLIP M	10	7760056108
SCM CLIP P	5	7760056367
ESG 9/26 SCM ECO MC NE WS	80	1520980000
SCM/SDI P CC	10	7760056366
SDIS 0.4X2.5X75	1	9008370000
SDS 0.4X2.5X75	1	9009030000

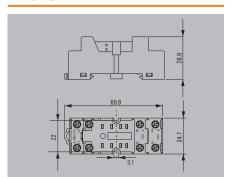
Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
DRM/DRL CLIP M	10	7760056108
SCM CLIP P	5	7760056367
ESG 9/26 SCM ECO MC NE WS	80	1520980000
SCM-I QV S	10	1132080000
SDIK PH1 X 80	1	2749890000
· · · · · · · · · · · · · · · · · · ·		

Note

Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Socket module with leaf spring connection, 2 CO contacts









250 V AC		
300 V		
12 A		
-40 °C70 °C		
-40 °C70 °C		
CE; cURus; UKCA		
IP10		
≥ 4 mm		
2 kV _{eff} / 1 min		
2 kV _{eff} / 1 min		
4 kV (1.2/50 μs)		
/ 0.5 / 2.5 mm ²		
0.50.8 Nm		
7 mm		

uty.	Order No.
10	7760056106
	10

Туре	Qty.	Order No.
DRM/DRL CLIP M	10	7760056108
SDIK PH1 X 80	1	2749890000

LED and protective modules are not compatible with this base. Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller **₹** B.153

DRM relay

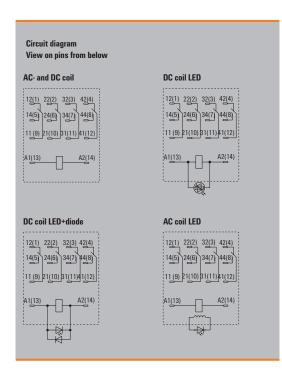
4 CO contact, AC/DC coil

- Compact design combined with high switching capacity
- Wide range of coil voltages
- Optional test button (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional free-wheeling diode







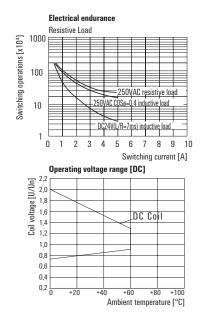


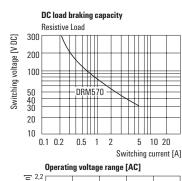
Technical data

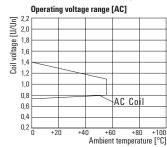
Load side	
Rated switching voltage / Continuous current	250 V AC / 5 A
Max. switching voltage, AC	250 V
Inrush current	10 A / 50 ms
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Contact type	4 CO contact (AgNi flash gold-plated)
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	cURus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.8 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

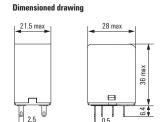
Dimensions	Plug-in connection
Depth x width x height	mm 35.7 / 21 / 27.4
Note	Further technical data can be found at eshop.weidmueller.com

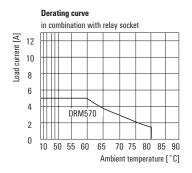
Applications





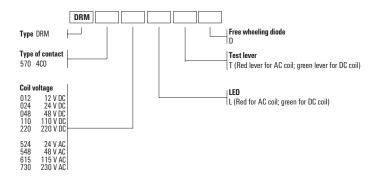






3.154 **Weidmüller ₹** 3043770000

DRM relay 4 CO contact, AC/DC coil



Ordering da	nta	12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4C0	220 V DC 4CO
Control side						
Rated control v	oltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current A	AC / DC	/ 75 mA	/ 37.8 mA	/ 18.5 mA	/ 10 mA	/ 5.2 mA
Power rating		0.9 W	0.9 W	0.9 W	1.2 W	1.2 W
Ordering data						
Standard	Туре	DRM570012	DRM570024	DRM570048	DRM570110	DRM570220
	Order No.	7760056078	7760056079	7760056080	7760056081	7760056082
with LED	Type	DRM570012L	DRM570024L	DRM570048L	DRM570110L	DRM570220L
	Order No.	7760056087	7760056088	7760056089	7760056090	7760056091
with test buttor	n + LED Type	DRM570012LT	DRM570024LT	DRM570048LT	DRM570110LT	DRM570220LT
	Order No.	7760056096	7760056097	7760056098	7760056099	7760056100
with LED	Type		DRM570024LD			
+ Free-wheel di	iode Order No.		7760056105			

Ordering da	ta	24 V AC 4CO	48 V AC 4CO	115 V AC 4CO	230 V AC 4CO
Control side					
Rated control vo	ltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current A	C / DC	62.4 mA (50 Hz), 52.2 mA (60 Hz) /	33.3 mA (50 Hz), 27.8 mA (60 Hz) /	12.6 mA (50 Hz), 10.8 mA (60 Hz) /	6.1 mA (50 Hz), 5.2 mA (60 Hz) /
Power rating		1.01.2VA (60HZ)	1.01.2VA (60HZ)	1.01.2VA (60HZ)	1.01.2VA (60HZ)
Ordering data					
Standard	Туре	DRM570524	DRM570548	DRM570615	DRM570730
	Order No.	7760056083	7760056084	7760056085	7760056086
with LED	Туре	DRM570524L	DRM570548L	DRM570615L	DRM570730L
	Order No.	7760056092	7760056093	7760056094	7760056095
with test button	+ LED Type	DRM570524LT	DRM570548LT	DRM570615LT	DRM570730LT
	Order No.	7760056101	7760056102	7760056103	7760056104
	Type				
	Order No.				

Note

3043770000 **Weidmüller ₹ B.155**

Accessories for DRM relays

- Isolated input and output
- · Terminal rail can be unlocked with a screwdriver
- Wide assortment of functional modules

Socket with **PUSH IN connection, 4 CO contact**

250 V AC

-40 °C...55 °C

-40 °C...85 °C

CE; cURus; UKCA

250 V

6 A

IP20

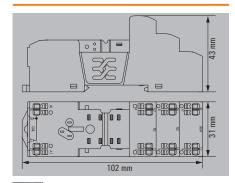
≥ 3 mm

10 mm

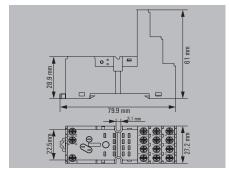
 $4 \text{ kV}_{\text{eff}} / 1 \text{ min}$

2.5 kV_{eff} / 1 Min.

1.5 / 0.14 / 1.5 mm²











250 V AC		
250 V A0		
6 A		
O A		
40.00 70.00		
-40 °C70 °C		
-40 °C70 °C		
CE; cURus; UKCA		
IP20		
≥ 5.5 mm		
4 kV _{eff} / 1 min		
4 kV _{eff} / 1 min		
4.8 kV (1.2/50 μs)		
/ 0.5 / 2.5 mm ²		
0.50.8 Nm		
7 mm		

Technical data

Load side

Rated switching voltage

Max. switching voltage, AC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SCM 4C0 P	10	7760056363

Туре	Qty.	Order No.
SCM 4C0 ECO	10	7760056264

Accessories

LED module / protection modules

Free-wheeling diode 6 - 230 V DC LED 6 - 24 V DC green and freewheeling diode LED 24 - 60 V DC green and free-wheeling diode LED 110 - 230 V DC green and free-wheeling diode LED 6 - 24 V UC green LED 24 - 60 V UC green LED 110 - 230 V UC green RC element 110 - 230 V AC; 4.7 k Ω / 10 nF

RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green

Retaining clip

Metal retaining clip

Plastic retaining bracket with marker holder Marking tags

white Cross-connector

Screwdriver

Standard, insulated Standard, uninsulated Standard, uninsulated

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
DRM/DRL CLIP M	10	7760056108
SCM CLIP P	5	7760056367
ESG 9/26 SCM ECO MC NE WS	80	1520980000
SCM/SDI P CC	10	7760056366
SDIS 0.4X2.5X75	1	9008370000
SDS 0.4X2.5X75	1	9009030000

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
DRM/DRL CLIP M	10	7760056108
SCM CLIP P	5	7760056367
ESG 9/26 SCM ECO MC NE WS	80	1520980000
SCM-I QV S	10	1132080000
SDIK PH1 X 80	1	2749890000
SDIK SLIM PH1 X 80	1	2749650000
SDK PH1 X 80	1	2749410000

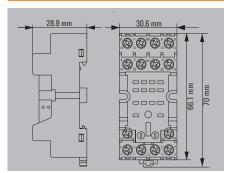
Note

Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🏖 B.156 3043770000

Socket module with leaf spring connection, 4 CO contacts









250 V AC	
300 V	
10 A	
-40 °C70 °C	
-40 °C70 °C	
CE; cURus; UKCA	
IP10	
≥ 4 mm	
2 kV _{eff} / 1 min	
2 kV _{eff} / 1 min	
4 kV (1.2/50 μs)	
/ 0.5 / 2.5 mm ²	
0.50.8 Nm	
7 mm	

Qty.	Order No.
10	7760056107
	2.,.

Туре	Qty.	Order No.
RIM 1 6/230VDC	10	7760056169
RIM 2 6/24VDC	10	7760056015
RIM 2 24/60VDC	10	7760056016
RIM 2 110/230VDC	10	7760056017
RIM 3 6/24VUC	10	7940018457
RIM 3 24/60VUC	10	7760056018
RIM 3 110/230VUC	10	7940018455
RIM 3 110/230VAC	10	7760056014
DRM/DRL CLIP M	10	7760056108
SDIK PH1 X 80	1	2749890000
SDIK SLIM PH1 X 80	1	2749650000
SDK PH1 X 80	1	2749410000

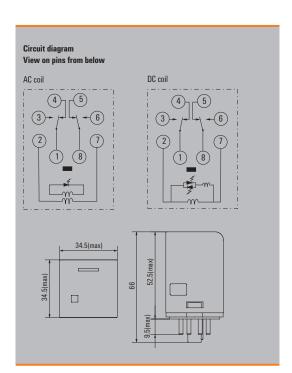
Further accessories can be found on the article at eshop.weidmueller.com

3043770000 **Weidmüller 3 B.157**

DRR power relay 2 CO contact, AC/DC coil

- 2,500 VA switching capacity
- 8-pole relay



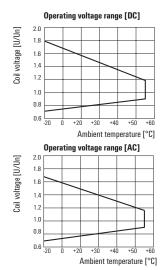


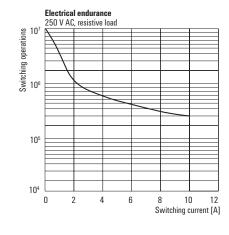
Technical data

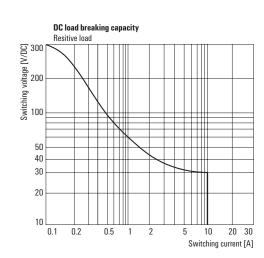
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	2 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

Dimensions	Plug-in connection
Depth x width x height	mm 66 / 34.5 / 34.5
Note	Further technical data can be found at eshop, weidmueller.com
NOTE	Furtner technical data can be found at esnop.weidmueller.com

Applications

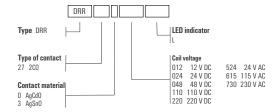






158 Weidmüller ₹ 3043770000

DRR power relay 2 CO contact, AC/DC coil



Ordering data

Control side

Rated control voltage

Rated current AC / DC

Power rating

Status indicator

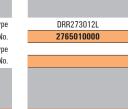
12 V DC 2CO	
12 V DC	
/ 125 mA	
1.5 W	
Green LED	

24 V DC 2CO	
24 V DC	
/ 55.8 mA	
1.5 W	
Green LED	

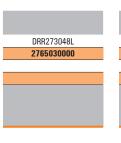
48 V DC 2CO
48 V DC
/ 29.2 mA
1.5 W
Green LED

110 V DC 2CO	220 V DC 2CO
110 V DC	220 V DC
/ 15 mA	/ 7.6 mA
1.5 W	1.5 W
Green LED	Green LED

Ordering data
Type
Order No.
Type
Order No.
Note









Ordering data
Control side
Rated control voltage
Rated current AC / DC

Power rating
Status indicator

24 V AC 2CO	
24 V AC	
130 mA (50 Hz), 116 mA (60 Hz) /	
2.7 VA	
red LED	

115 V AC 2CO
115 V AC
29.8 mA (50 Hz), 25.4 mA (60 Hz) /
2.7 VA
red LED

230 V AC 200	
230 V AC	
14.9 mA (50 Hz), 12.7 mA (60 Hz) /	
2.7 VA	
red LED	

Ordering data	
	Туре
	Order No.
	Туре
	Order No.
Note	

3043770000



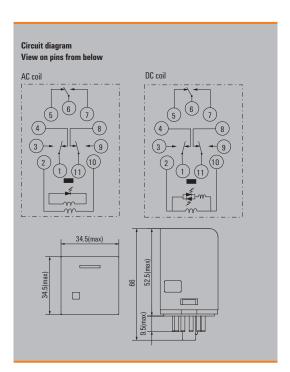
DRR273615L	
2765320000	

DRR273730L	
2765330000	

DRR power relay 3 CO contact, AC/DC coil

- 2,500 VA switching capacity
- 11-pole relay



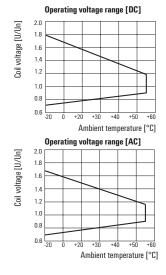


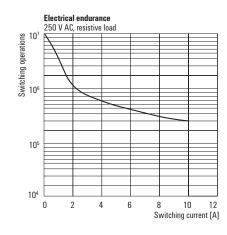
Technical data

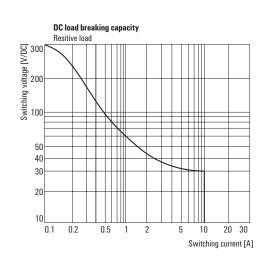
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	3 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 3 mm
Overvoltage category	III
Pollution degree	3

Dimensions	Plug-in connection
Depth x width x height	mm 66 / 34.5 / 34.5
Note	Further technical data can be found at eshop.weidmueller.com

Applications

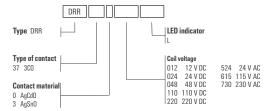






160 Weidmüller № 3043770000

DRR power relay 3 CO contact, AC/DC coil



Ordering data

Control side

Rated control voltage

Rated current AC / DC

Power rating

Status indicator

	12 V DC 3CO
ı	
	12 V DC
	/ 125 mA
	1.5 W
	Green LED

24 V DC 3CO	
24 V DC	
/ 55.8 mA	
1.5 W	
Green LED	

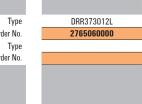
48 V DC 3CO
48 V DC
/ 29.2 mA
1.5 W
Green LED

110 V DC 3C0	220 V DC 3CO
110 V DC	220 V DC
/ 15 mA	/ 7.6 mA
1.5 W	1.5 W
Green LED	Green LED

Ordering data

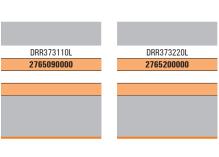
Type
Order No.
Type
Order No.

Note









Ordering data
Control side
Rated control voltage
Rated current AC / DC

Power rating
Status indicator

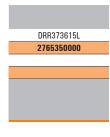
24 V AC 3CO
24 V AC
130 mA (50 Hz), 116 mA (60 Hz) /
2.7 VA
red LED

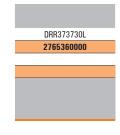
115 V AC 3CO
115 V AC
29.8 mA (50 Hz), 25.4 mA (60 Hz) /
2.7 VA
red LED

230 V AU 3UU	
230 V AC	
14.9 mA (50 Hz), 12.7 mA (60 Hz) /	
2.7 VA	
red LED	

Ordering data
Type
Order No.
Type
Order No.
Note



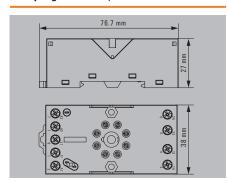


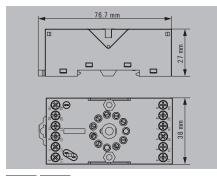


Accessories for DRR relays

Socket module with leaf spring connection, 2 CO contacts

Socket module with leaf spring connection, 3 CO contacts







7 mm





Technical data Load side Rated switching voltage Max. switching voltage, AC Continuous current

Ambient temperature (operational) Storage temperature

Approvals

General data

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

LED module / protection modules

Note

250 V AC
300 V
12 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP20
≥ 4 mm
2.5 kV _{eff} / 1 Min.
2.21 kV _{eff} / 1 min
4.8 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.51 Nm

250 V AC
300 V
12 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP20
≥ 4 mm
2.5 kV _{eff} / 1 Min.
2.21 kV _{eff} / 1 min
4.8 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.51 Nm
7 mm

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SRD ECO 2CO	10	1132810000

Туре	Qty.	Order No.
SRD ECO 3CO	10	1132820000

Accessories

	RC element 6 - 230 V AC
	Free-wheeling diode 6 - 230 V DC
Retaining clip	
	Metal retaining clip
Screwdriver	
	Standard, uninsulated
	Standard, insulated

Standard, uninsulated

Туре	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRR CLIP M	10	1134160000
SDIK SLIM PH1 X 80	1	2749650000
SDIK PH1 X 80	1	2749890000
SDK PH1 X 80	1	2749410000

Туре	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRR CLIP M	10	1134160000
SDIK SLIM PH1 X 80	1	2749650000
SDIK PH1 X 80	1	2749890000
SDK PH1 X 80	1	2749410000

Note

Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🏖

3043770000 **Weidmüller ₹ B.163**

DRL power relay

1 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



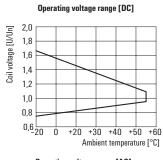
Circuit diagram View on pins from below DC coil AC coil 3 4 5 6 8 28 max 21.5 max

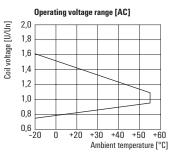
Technical data

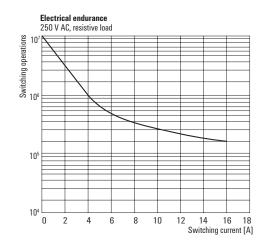
Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	80 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

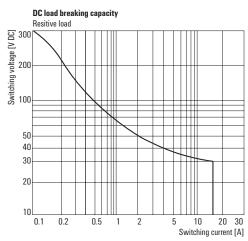
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com

Applications



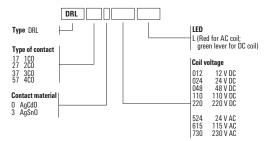






3.164 Weidmüller ₹ 3043770000

DRL power relay 1 CO contact, AC/DC coil



Ordering data
Control side
Rated control voltage
Rated current AC / DC

Power rating
Status indicator

12 V DC	
12 V DC	
/ 75 mA	
0.9 W	
Green LED	

24 V DC	
24 V DC	
/ 36.9 mA	
0.9 W	
Green LED	

48 V DC
48 V DC
/ 18.5 mA
0.9 W
Green LED

110 V DC	220 V DC
110 V DC	220 V DC
/ 10 mA	/ 5.2 mA
0.9 W	0.9 W
Green LED	Green LED

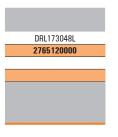
Ordering data

1 CO contact Type
Order No.
Type
Order No.

Note



DRL173024L
2765110000





DRL173220L	
2765140000	

Ordering data
Control side
Rated control voltage
Rated current AC / DC
Power rating
Status indicator

24 V AC
24 V AC
54 mA /
1.2 VA
red LED

115 V AC	
115 V AC	
12,9 mA /	
1.2 VA	
red LED	

230 V AC	
230 V AC	
6.8 mA /	
1.2 VA	
red LED	

Ordering data

1 CO contact Type
Order No.
Type
Order No.

Note

3043770000

DRL173524L
2765370000

DRL173615L 2765380000		
	DRI 1736151	
2765380000	 DITETTOOTSE	
	2765380000	

DRL173730L
2765390000

Weidmüller ₹ B.165

DRL power relay

2 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



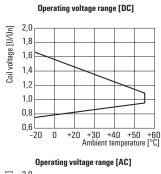
Circuit diagram View on pins from below DC coil AC coil 28 max 21.5 max 21.5 max

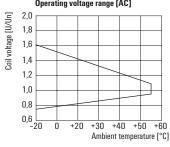
Technical data

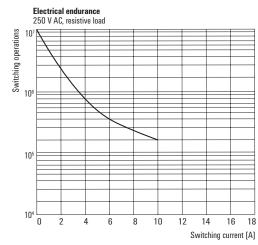
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	2 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.2 kV _{eff} /1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

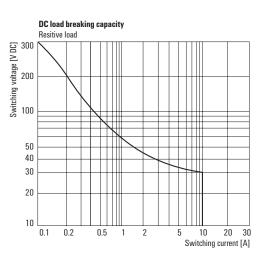
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com

Applications

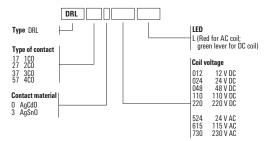








DRL power relay 2 CO contact, AC/DC coil



Ordering data
Control side
Rated control voltage Rated current AC / DC
Power rating Status indicator

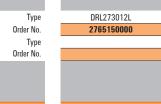
12 V DC	
12 V DC	
/ 75 mA	
0.9 W	
Green LED	

24 V DC	
24 V DC	
/ 36.9 mA	
0.9 W	
 Green LED	

48 V DC
48 V DC
/ 18.5 mA
0.9 W
Green LED

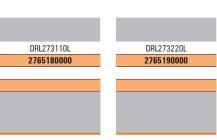
110 V DC	220 V DC
110 V DC	220 V DC
/ 10 mA	/ 5.2 mA
0.9 W	0.9 W
Green LED	Green LED

Ordering data	
2 CO contacts	Туре
	Order No.
	Туре
	Order No.
Note	



DRL273024L
2765160000





Ordering data
Control side
Rated control voltage
Rated current AC / DC
Power rating
Status indicator

24 V AC	
24 V AC	
54 mA /	
1.2 VA	
red LED	

115 V AC	
115 V AC	
12,9 mA /	
1.2 VA	
red LED	

230 V AC	
230 V AC	
6.8 mA /	
1.2 VA	
red LED	

Ordering data	
2 CO contacts	Туре
	Order No.
	Type
	Order No.
Note	

DRL273524L
2765400000

DRL273615L	
2765410000	

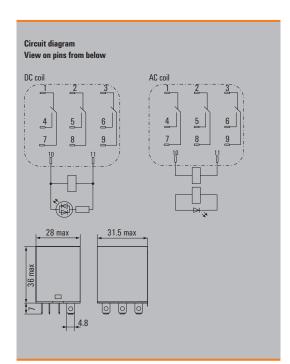
DRL273730L
2765420000

Weidmüller 3 ■ B.167

DRL power relay 3 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



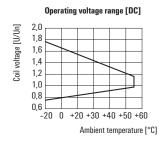


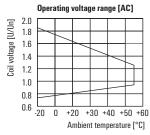
Technical data

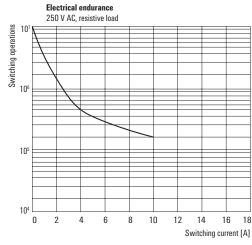
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	3 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

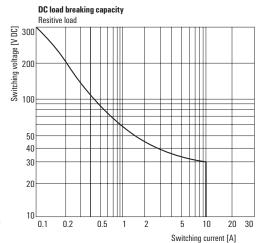
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 31.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com
More	ruttier technical data can be found at esnop.weidmueller.com

Applications



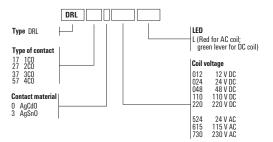






68 Weidmüller 5 3043770000

DRL power relay 3 CO contact, AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

12 V DC	
12 V DC	
/ 120 mA	
1.4 W	
Green LED	

24 V DC	
24 V DC	
/ 60 mA	
1.4 W	
Green LED	

48 V DC	
48 V DC	
/ 30 mA	
1.4 W	
Green LED	

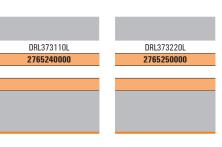
110 V DC	
110 V DC	
/ 13.1 mA	
1.4 W	
Green LED	

	220 V DC
_	220 V DC
-	/ 6.7 mA
-	1.4 W
_	Green LED

Ordering data 3 CO contacts Ord Ord Note

Туре	DRL373012L	
der No.	2765210000	
Type		
der No.		Ī
		Ī





Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

24 V AC
24 V AC
80 mA /
2 VA
red LED

115 V AC	
115 V AC	
16 mA /	
2 VA	
red LED	

230 V AC		
230 V AC		
10 mA /		
2 VA		
red LED		

Ordering data 3 CO contacts Туре Order No. Type Order No. Note

DRL373524L
2765430000

DRL373615L	
2765440000	

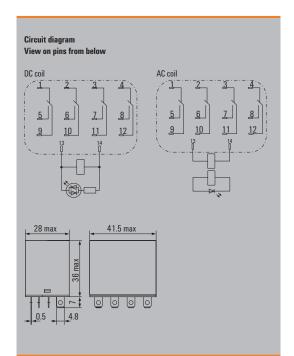
DRL373730L	
2765450000	

DRL power relay

4 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V





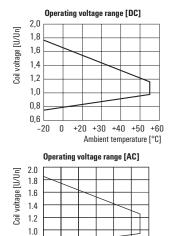
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	4 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

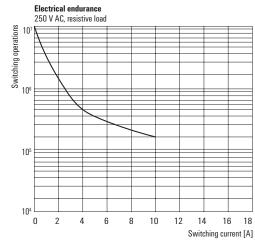
Flat blade connections (4.8 mm x 0.5 mm)	
mm 36 / 41.5 / 28	
Further technical data can be found at eshop, weidmueller.com	

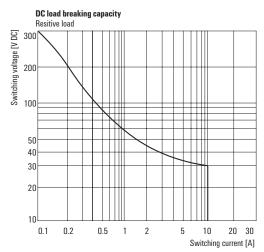
Applications

0.8



+20 +30 +40 +50 +60 Ambient temperature [°C]





B.170 *Weidmüller* **₹** 3043770000

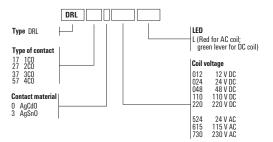
220 V DC

220 V DC

/ 7.6 mA

Green LED

DRL power relay 4 CO contact, AC/DC coil



Ordering data

Control side

Rated control voltage

Rated current AC / DC

Power rating

Status indicator

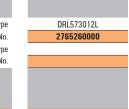
ì	
	12 V DC
ı	
	12 V DC
	/ 125 mA
	1.5 W
	Green LED

24 V DC	
24 V DC	
/ 66.7 mA	
1.5 W	
Green LED	

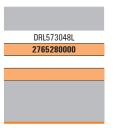
48 V DC	
48 V DC	
/ 31.2 mA	
1.5 W	
Green LED	

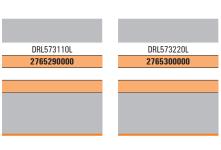
110 V DC
110 V DC
/ 16.2 mA
1.5 W
Green LED

Ordering data	
4 CO contacts	Type
	Order No.
	Type
	Order No.
Note	









Ordering data
Control side
Rated control voltage
Rated current AC / DC
Power rating
Status indicator

24 V AC			
24 V AC			
/ 93.5 mA			
2.5 VA			
red LED			

115 V AC			
115 V AC			
/ 25.5 mA			
2.5 VA			
red LED			

230 V AC		
230 V AC		
/ 13.1 mA		
2.5 VA		
red LED		

Ordering data	
4 CO contacts	Туре
	Order No.
	Type
	Order No.
Note	

3043770000



DRL573615L	
2765470000	

DRL573730	L
276548000	10

Weidmüller ₹ B.171

Accessories for DRL relays

Socket module with leaf spring connection, 2 CO contacts

250 V AC

-40 °C...65 °C

-40 °C...85 °C

CE; cURus; UKCA

250 V

10 A

IP10

≥ 6 mm

2 kV_{eff} / 1 min

 $2 \, kV_{\text{eff}} / 1 \, \text{min}$

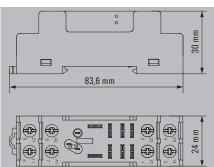
4 kV (1.2/50 μs)

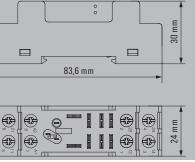
/ 0.5 / 2.5 mm²

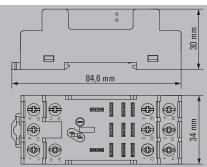
0.8...1 Nm

8 mm

Socket module with leaf spring connection, 3 CO contacts









		1
1	5	$\hat{\mathcal{S}}$

250 V AC	
250 V	
10 A	
-40 °C65 °C	
-40 °C85 °C	
CE; cURus; UKCA	
IP10	
≥ 6 mm	
2 kV _{eff} / 1 min	
2 kV _{eff} / 1 min	
4 kV (1.2/50 μs)	
$/ 0.5 / 2.5 \text{ mm}^2$	
0.81 Nm	
8 mm	

Technical data

Load side

Rated switching voltage

Max. switching voltage, AC Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

Note

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SLD F 2CO	10	7760056225

Туре	Qty.	Order No.
SLD F 3CO	10	7760056226

Accessories Retaining clip

Metal retaining clip
LED module / protection modules
LED 110 - 230 V UC green
LED 24 - 60 V UC green
LED 6 - 24 V UC green
LED 110 - 230 V DC green and free-wheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 6 - 24 V DC green and freewheeling diode
Free-wheeling diode 6 - 230 V DC
RC element 110 - 230 V AC; 4.7 kΩ / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
RC element 6 - 230 V AC

Туре	Qty.	Order No.
DRM/DRL CLIP M	10	7760056108
RIM 3 110/230VUC	10	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	10	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

Туре	Qty.	Order No.
SLD CLIP 3CO M	10	7760056234
RIM 3 110/230VUC	10	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	10	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

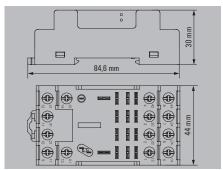
Note

Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🏖 B.172

Socket module with leaf spring connection, 4 CO contacts









250 V AC
250 V
10 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.81 Nm
8 mm

Qty.	Order No.
10	7760056227
	Qty. 10

Туре	Qty.	Order No.
SLD CLIP 4CO M	10	7760056235
RIM 5 6/230VDC	10	1174650000
RIM 5 6/230VAC	10	1174670000
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000
ODKI II Z X 100		27 10 120000

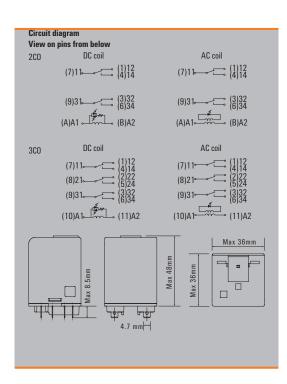
Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller **₹** B.173

DRW power relay 2 CO contact, AC/DC coil 3 CO contact, AC/DC coil

- Suitable for switching high load voltages
- With LED and test button



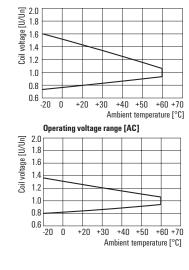


Technical data

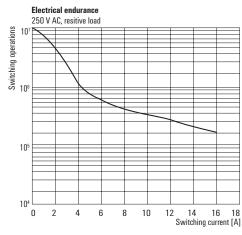
Load side	
Rated switching voltage / Continuous current	400 VAC / 16 A
Max. switching voltage, AC	400 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
Contact type	2 CO contact (AgSnO)
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C60 °C
Humidity	585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	400 V
Impulse withstand voltage	
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 6,3 mm
Overvoltage category	III
Pollution degree	3

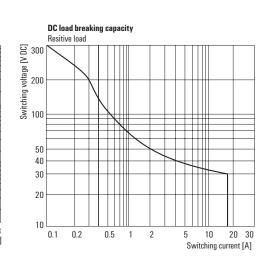
Flat blade connections (4.8 mm x 0.5 mm)
mm 48 / 36 / 36
Further technical data can be found at eshop.weidmueller.com

Applications



Operating voltage range [DC]

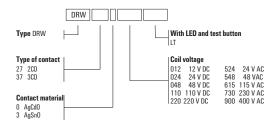




B.174 Weidmüller ₹ 3043770000

DRW power relay
2 CO contact, AC/DC coil
3 CO contact, AC/DC coil

Note



rdering data	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Control side					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.7 W	1.7 W	1.7 W	1.7 W	1.7 W
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Ordering data					
2 CO contacts Type	DRW273012LT	DRW273024LT	DRW273048LT	DRW273110LT	DRW273220LT
Order No.	2765590000	2765600000	2765610000	2765620000	2765630000
3 CO contacts Type	DRW373012LT	DRW373024LT	DRW373048LT	DRW373110LT	DRW373220LT
Order No.	2765640000	2765650000	2765660000	2765670000	2765680000
Vote					278353000
	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Ordering data Control side					400 V AC
rdering data Control side Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
rdering data Control side Rated control voltage					400 V AC
Ordering data Control side Rated control voltage Rated current AC / DC Power rating	24 V AC 101.7 mA / 2.5 VA	48 V AC 50.5 mA / 2.5 VA	115 V AC 21 mA /	230 V AC 10,6 mA / 2.5 VA	400 V AC 400 V AC 6.1 mA / 2.5 VA
Ordering data Control side Rated control voltage Rated current AC / DC Power rating	24 V AC 101.7 mA /	48 V AC 50.5 mA /	115 V AC 21 mA /	230 V AC 10,6 mA /	400 V AC 400 V AC 6.1 mA /
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator	24 V AC 101.7 mA / 2.5 VA	48 V AC 50.5 mA / 2.5 VA	115 V AC 21 mA /	230 V AC 10,6 mA / 2.5 VA	400 V AC 400 V AC 6.1 mA / 2.5 VA
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator	24 V AC 101.7 mA / 2.5 VA	48 V AC 50.5 mA / 2.5 VA	115 V AC 21 mA /	230 V AC 10,6 mA / 2.5 VA	400 V AC 6.1 mA / 2.5 VA red LED
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator Ordering data 2 CO contacts Type Order No.	24 V AC 101.7 mA / 2.5 VA red LED DRW273524LT 2765490000	48 V AC 50.5 mA / 2.5 VA red LED DRW273548LT 2765500000	115 V AC 21 mA / 2.5 VA red LED DRW273615LT 2765510000	230 V AC 10,6 mA / 2.5 VA red LED DRW273730LT 2765520000	400 V AC 400 V AC 6.1 mA / 2.5 VA red LED DRW273900LT 2765530000
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator Ordering data 2 CO contacts Type	24 V AC 101.7 mA / 2.5 VA red LED	48 V AC 50.5 mA / 2.5 VA red LED	115 V AC 21 mA / 2.5 VA red LED	230 V AC 10,6 mA / 2.5 VA red LED	400 V AC 400 V AC 6.1 mA / 2.5 VA red LED

3043770000 **Weidmüller ₹ B.175**

1 NO contact AC/DC coil

1 NC contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 10 A at 220 V DC

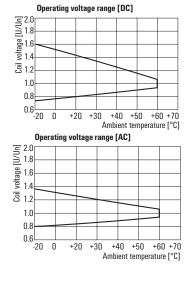


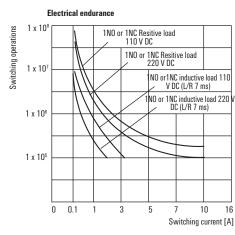
Circuit diagram View on pins from below 1N0 DC coil AC coil N S S (6)34 (A)A1. (B)A2 1NC DC coil AC coil **....** (1)12 1)12 ---- (3)32 · (3)32 (A)A1 (B)A2 (A)A1 (B)A2 Max 36mm Max 48mm Max 36 mm 4.7 mm

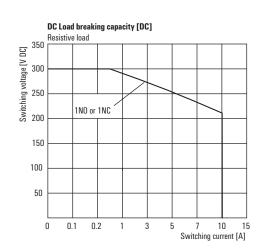
Technical data

есппісаї дата		
Load side		
Rated switching voltage / Continuous current		500 V AC / 16 A
Max. switching voltage, AC		400 V
Inrush current		80 A / 50 ms
Min. switching power		100 mA @ 12 V
DC / AC Switching capacity (resistive), max.		2200 W @ 220 V / 8000 VA
Contact material		AgSn0
Mechanical service life		10 x 10 ⁶ switching cycles
Max. switching frequency at rated load		0.1 Hz
General data		
Ambient temperature (operational)		-40 °C60 °C
Storage temperature		-40 °C60 °C
Humidity		585 % rel. humidity, no condensation
Approvals		cURus
Insulation coordinates		
Rated voltage		500 V
Impulse withstand voltage		
Dielectric strength for control side - load side		4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts		
Dielectric strength to mounting rail		
Clearance and creepage distances for control side - loa	d side	≥ 8 mm
Overvoltage category		III
Pollution degree		3
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm	48 / 36 / 36
Note	Further technical data can be found at eshop, weidmueller, com	

Applications



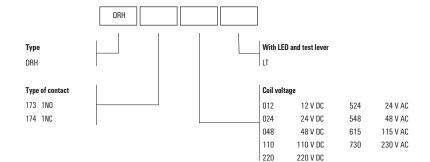




3.176 Weidmüller ₹ 3043770000

1 NO contact AC/DC coil

1 NC contact AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

12 V DC	
12 V DC	
/ 120 mA	
1.5 W	
Green LED	

24 V DC	
24 V DC	
/ 60 mA	
1.5 W	
Green LED	

48 V DC	
48 V DC	
/ 30 mA	
1.5 W	
Green LED	

110 V DC	
110 V DC	
/ 13 mA	
1.5 W	
Green LED	

220 V DC
220 V DC
/ 6.7 mA
1.5 W
red LED

Ordering data 1 NO contact Type Order No. 1 NC co

ontact	Туре
	Order No.



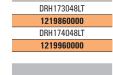
DRH173012LT

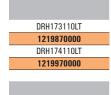
1219840000

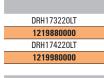
DRH174012LT

1219940000









Ordering data Test-button lock Туре Order No.

Note



24 V AC







Ordering data Co

oraoring aata	
Control side	
Rated control voltage	24 V AC
Rated current AC / DC	101.7 mA /
Power rating	2.5 VA
Status indicator	red LED

48 V AC
48 V AC
50.5 mA /
2.5 VA
red LED

115 V AC	
115 V AC	
21 mA /	
2.5 VA	
red LED	

230 V AC	
230 V AC	
10,6 mA /	
2.5 VA	
red LED	

Ordering data	
1 NO contact	Туре
	Order No.
1 NC contact	Type
	Order No.
Ordering data	
Test-button lock	
	Tyne

	Type Order No.
e	

DRH174524LT
1219990000
TEST LEVER BLOCK DRH/DRW
7760056249

DRH173524LT

1219890000

1220010000
TEST LEVER BLOCK DRH/DRW
7760056249
7700030245

DRH173548LT

1219910000

DRH174548LT

DRH173615LT
1219920000
DRH174615LT
1220020000
TEST LEVER BLOCK DRH/DRW
7760056249

DULI1/9/90FI				
1219930000				
DRH174730LT				
1220030000				
TEST LEVER BLOCK DRH/DRW				
7760056249				

DBH173730IT

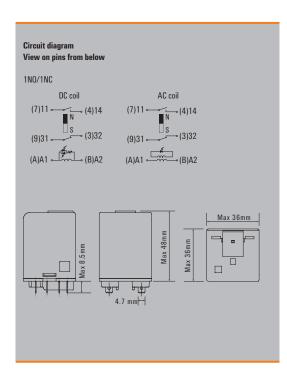
Weidmüller ₹ B.177

Not

1 NO contact / 1 NC contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC

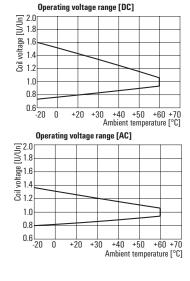


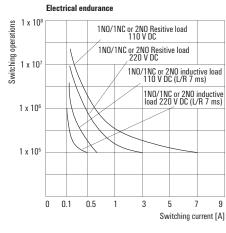


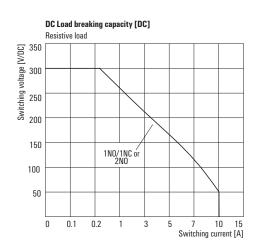
Technical data

ooninoui uutu			
Load side			
Rated switching voltage / Continuous current		250 V AC / 16 A	
Max. switching voltage, AC		400 V	
Inrush current		80 A / 50 ms	
Min. switching power		100 mA @ 12 V	
DC / AC Switching capacity (resistive), max.		660 W @ 220 V / 4000 VA	
Contact material		AgSn0	
Mechanical service life		10 x 10 ⁶ switching cycles	
Max. switching frequency at rated load		0.1 Hz	
General data			
Ambient temperature (operational)		-40 °C60 °C	
Storage temperature		-40 °C60 °C	
Humidity		585 % rel. humidity, no condensation	
Approvals		cURus	
Insulation coordinates			
Rated voltage		400 V	
Impulse withstand voltage			
Dielectric strength for control side - load side		4 kV _{eff} / 1 min	
Dielectric strength of neighbouring contacts		4 kV _{eff} / 1 min	
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - loa	d side	≥ 6,3 mm	
Overvoltage category		III	
Pollution degree		3	
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm	48 / 36 / 36	
Note		Further technical data can be found at eshop.weidmueller.com	

Applications







178 Weidmüller ₹ 3043770000

DRH DC relay 1 NO contact / 1 NC contact AC/DC coil

Ordering data
Test-button lock

Note

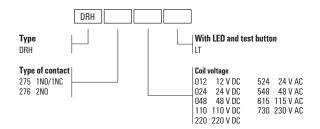
3043770000

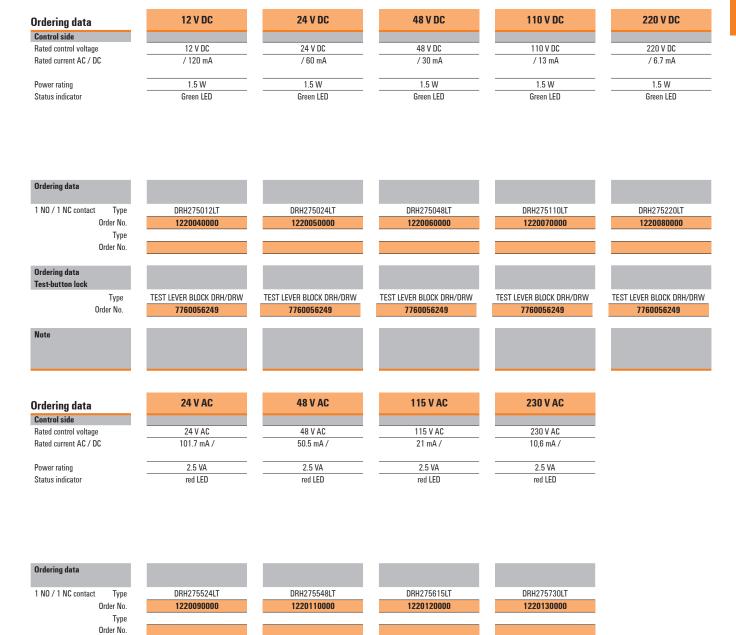
Type Order No TEST LEVER BLOCK DRH/DRW

7760056249

TEST LEVER BLOCK DRH/DRW

7760056249





Weidmüller ½ B.179

TEST LEVER BLOCK DRH/DRW

7760056249

TEST LEVER BLOCK DRH/DRW

7760056249

2 NO contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC

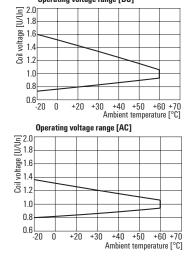


Circuit diagram View on pins from below 2N0 DC coil AC coil _∞ (4)14 。(4)14 (A)A1 ... (B)A2 (A)A1 (B)A2 Max 36mm Max 48mm Max 36mm

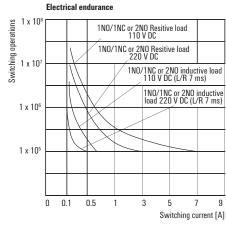
Technical data

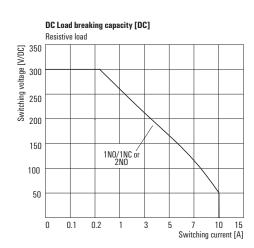
Load side			
Rated switching voltage / Continuous current		250 V AC / 16 A	
Max. switching voltage, AC		400 V	
Inrush current		80 A / 50 ms	
Min. switching power		100 mA @ 12 V	
DC / AC Switching capacity (resistive), max.		660 W @ 220 V / 4000 VA	
Contact material		AgSn0	
Mechanical service life		10 x 10 ⁶ switching cycles	
Max. switching frequency at rated load		0.1 Hz	
General data			
Ambient temperature (operational)		-40 °C60 °C	
Storage temperature		-40 °C60 °C	
Humidity		585 % rel. humidity, no condensation	
Approvals		cURus	
Insulation coordinates			
Rated voltage		400 V	
Impulse withstand voltage			
Dielectric strength for control side - load side		4 kV _{eff} / 1 min	
Dielectric strength of neighbouring contacts		4 kV _{eff} / 1 min	
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load	d side	≥ 6,3 mm	
Overvoltage category		III	
Pollution degree		3	
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm	48 / 36 / 36	
Note	Further technical data can be found at eshop.weidmueller.com		

Applications



Operating voltage range [DC]





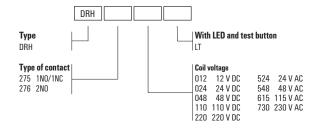
Weidmüller 🏖 B.180 3043770000

220 V DC

DRH DC relay 2 NO contact AC/DC coil

Ordering data

12 V DC



110 V DC

viueiiig uata	12 1 20	21720	10 1 20	110120	220 1 20
Control side					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
natou sanoni rio, bo	, 1201	, 55	, 55	, 10 1111	7 3.7 1111
Power rating	1.5 W				
Status indicator	Green LED				
Status iliuitatoi	GIEGH LED	Gleen LED	Gleen LED	Gleen LED	GIEGII LED
Ordering data					
2 NO contacts Type	DRH276012LT	DRH276024LT	DRH276048LT	DRH276110LT	DRH276220LT
Order No.	1220140000	1220150000	1220170000	1220180000	1220190000
Туре					
Order No.					
Ordering data Test-button lock					
	TEST LEVER BLOCK DRH/DRW	TEST LEVER BLOCK DRH/DRV			
Type Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Order No.	7700000249	7700030243	7700050249	//00000249	7700050245
Note					
Ordering data	24 V AC	48 V AC	115 V AC	230 V AC	
Control side					
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /	
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA	
-					
Status indicator	red LED	red LED	red LED	red LED	
Ordering data					

24 V DC

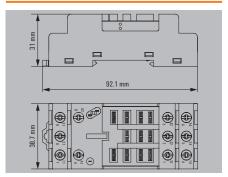
48 V DC

2 NO contacts	Туре	DRH276524LT	DRH276548LT	DRH276615LT	DRH276730LT
	Order No.	1220200000	1220210000	1220220000	1220230000
	Туре				
	Order No.				
Ordering data					
Test-button lock					
	Type	TEST LEVER BLOCK DRH/DRW			
	Order No.	7760056249	7760056249	7760056249	7760056249
Note					

Weidmüller **3**€ B.181 3043770000

Accessories for DRH and DRW relays

Socket module with leaf spring connection, 3 CO contacts





250 V AC

-40 °C...60 °C

-40 °C...60 °C CE; cURus; UKCA

 $4 \, kV_{eff} / 1 \, min$

 $4 \, kV_{\text{eff}} / 1 \, \text{min}$

/ 0.5 / 4 mm² 0.5...1.2 Nm

7.3 kV (1.2/50 µs)

250 V

16 A

IP10

8 mm





Rated switching voltage

Technical data

Load side

Max. switching voltage, AC Continuous current

General data

Ambient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

LED module / protection modules

Note

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SPW ECO 3CO	10	1220250000

Accessories

	RC element 6 - 230 V AC
	Free-wheeling diode 6 - 230 V DC
Retaining clip	
	Metal retaining clip
Screwdriver	

Screwdriver, insulated PH2 SlimLine Screwdriver, insulated PH2 Screwdriver PH2

Туре	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRW/DRH CLIP M	10	1220260000
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

Note

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🐔 B.182 3043770000

3043770000 **Weidmüller ₹ B.183**

MCZ-SERIES

High reliability in a terminal block format

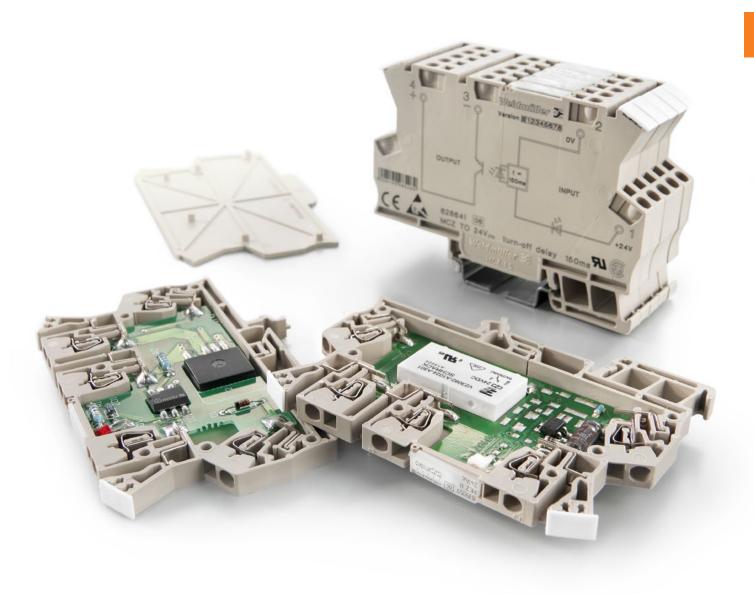
MCZ SERIES relay modules are among the smallest on the market. Thanks to the small width of just 6.1 mm, a lot of space can be saved in the panel. All products in the series have three cross-connection terminals and are distinguished by simple wiring with plug-in cross-connections. The tension clamp connection system, proven a million times over, and the integrated reverse polarity protection ensure a high level of safety during installation and operation. Precisely fitting accessories from cross-connectors to markers and end plates make the MCZ SERIES versatile and convenient to use.

MCZ TRAK – tested according to DIN EN 50155

- Variants of the MCZ TRAK type are particularly suitable for the transport sector
- Tested according to DIN EN 50155, they meet the special requirements for operating voltage, temperature range, shock and vibration resistance as required for use in the railway industry.



Weidmüller ₹2 3043770000



MCZ R

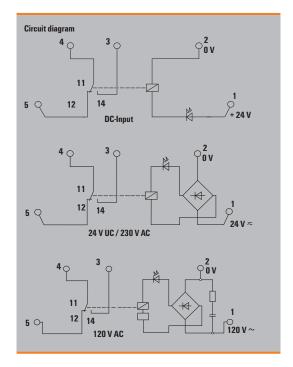
1 CO contact AC/DC/UC coil

The module can be used as a universal interface between the controller and the actuator to switch small and medium-sized loads

- Reduced installation and commissioning costs, thanks to the use of the proven tension-spring connection system
- Pluggable cross-connection at input and output minimises the wiring workload.
- Width 6 mm
- For mounting on TS 35



Technical data



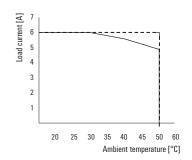
I O O I I I I O O I I I I I I I I I I I	
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	6 A
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C50 °C
Storage temperature	-40 °C60 °C
Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation
Approvals	CE; CSA; cURus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 s
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		Tension-clamp connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.5 / 1.5
Depth x width x height	mm	63.2 / 6.1 / 91
Note	End plate AP MCZ 1.5: 8389030000	

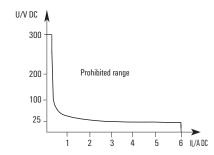
Applications

Derating curve

in a row without spacing on terminal rail in a row with 20 mm spacing on terminal rail



Limit curve



B.186 *Weidmüller* **₹** 3043770000

MCZ R

Status indicator

Protective circuit

1 CO contact AC/DC/UC coil

Ordering data		24 V DC 1 CO	24 V DC 1 CO Au	24 V UC 1 CO	110 V DC 1 CO
Control side					
Rated control voltage		24 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	110 V DC ±10 %
Rated current AC / DC		/ 6.3 mA	/ 6.3 mA	11 mA / 6.4 mA	/ 2.85 mA
Power rating		156 mW	156 mW	270 mVA / 154 mW	340 mW
Status indicator		Green LED	Green LED	Green LED	Green LED
Protective circuit		Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier
Ordering data					
Complete module	-	MOZ D 0 41/D0	1407 D 0 41/D0 51/4/	1407 D 0 41/1/0	1407 D 440VD0
CO contact	Туре	MCZ R 24VDC	MCZ R 24VDC 5UAU	MCZ R 24VUC	MCZ R 110VDC
	Order No.	8365980000	8442960000	8390590000	8467470000
	Туре				
	Order No.				
Note					
		120 V AC 1 CO	230 V AC 1 CO		
Ordering data		120 V AC 1 CO	230 V AC 1 CU		
Control side					
Rated control voltage		120 V AC -15 % / +10 %	230 V AC ±10 %		
Rated current AC / DC		7 mA /	9.5 mA /		
Power rating		0.85 VA	2.1 VA		
0		0 150	0 150		

Green LED

Rectifier

Ordering data Complete module			
CO contact	Type	MCZ R 120VAC	MCZ R 230VAC
	Order No.	8420880000	8237710000
	Type		
	Order No.		
Note			

Green LED

RC element, Rectifier

Weidmüller 3 ■ B.187 3043770000

MCZ R TRAK

1 CO contact or 1 NO contact DC coil

- 1 CO contact
- Component for rail industry applications
- Vibration requirements according to EN 61373, requirements category 1 class B
- \bullet Voltage fluctuations -30 %/+25 % and ±40 % for 0.1 sec
- Voltage interruptions at input up to 10 ms
- Condensation permissible



Circuit diagram 4 3 0 0 V 11 14 1 + 24 V

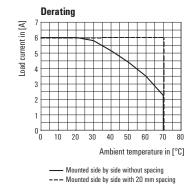
Technical data

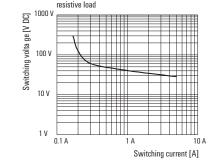
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	6 A
Min. switching power	100 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 s
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions	Tension-clamp connection	
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.5 / 1.5	
Depth x width x height	mm 63.2 / 6.1 / 91	
Note	End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page.	

Applications

B.188





DC load braking capacity

Weidmüller ₹ 3043770000

Universal range

MCZ R TRAK

1 CO contact or 1 NO contact DC coil

Ordering data	24 V DC TRAK	36 V DC TRAK	48110 V DC TRAK
Control side			
Rated control voltage	24 V DC +25 % / -30 %	36 V DC +25 % / -30 %	48 V110 V DC +25 % / -30 %
Rated current AC / DC	/ 11.516.5 mA	/ 812 mA	/ <3 mA
Power rating	195500 mW	200540 mW	<300 mW
Status indicator	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Varistor, Reverse polarity protection	Free-wheeling diode, Varistor, Reverse polarity protection	Free-wheeling diode, Varistor, Reverse polarity protection

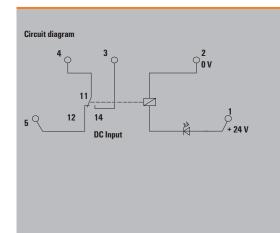
Ordering data Complete module				
CO contact	Туре	MCZ R 24VDC 1CO TRAK	MCZ R 36VDC 1CO TRAK	MCZ R 48110VDC 1C0 TRAK
	Order No.	8713890000	8713900000	8713910000
NO contact	Туре	MCZ R 24VDC 1NO TRAK		MCZ R 48110VDC 1NO TRAK
	Order No.	8499550000		8574070000
NI .				
Note				

3043770000 **Weidmüller № B.189**

MCZ R TRAK Au 1 CO contact DC coil

- 1 CO with hard gold-plated contacts
- Component for rail industry applications
- Vibration requirements according to EN 61373, requirements category 1 class B
- \bullet Voltage fluctuations -30 %/+25 % and ±40 % for 0.1 sec
- Voltage interruptions at input up to 10 ms
- Condensation permissible



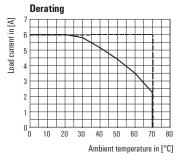


Technical data

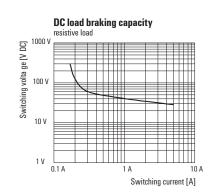
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	6 A
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgSnO gold-plated)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C70 °C
Storage temperature	-40 °C85 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155
Approvals	CE; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 s
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions	Tension-clamp connection
Clamping range (nominal / min. / max.)	mm^2 1.5 / 0.5 / 1.5
Depth x width x height	mm 63.2 / 6.1 / 91
Note	End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page.

Applications



—— Mounted side by side without spacing
—— Mounted side by side with 20 mm spacing



B.190 *Weidmüller* **₹** 3043770000

MCZ R TRAK Au 1 CO contact DC coil

Ordering data	24 V DC TRAK Au	36 V DC TRAK Au	48110 V DC TRAK Au
Control side			
Rated control voltage	24 V DC +25 % / -30 %	36 V DC +25 % / -30 %	48 V110 V DC +25 % / -30 %
Rated current AC / DC	/ 11.516.5 mA	/ 812 mA	/ <3 mA
Power rating	195500 mW	200540 mW	<300 mW
Status indicator	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Varistor, Reverse polarity protection	Free-wheeling diode, Varistor, Reverse polarity protection	Free-wheeling diode, Varistor, Reverse polarity protection

Ordering data				
CO contact	Туре	MCZ R 24VDC 1CO AU TRAK	MCZ R 36VDC 1CO AU TRAK	MCZ R 48110VDC 1C0 AU TRAK
	Order No.	8790520000	8790510000	8790500000
	Туре			
	Order No.			
Note				

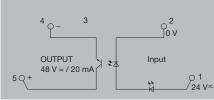
3043770000 **Weidmüller ₹ B.191**

MCZ 0

- Universal interface between controller and sensor/
- Tension-clamp connection system
- · Plug-in cross-connection
- 6 mm modular wide

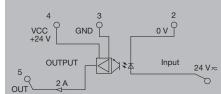
24 V UC





24 V UC / 24 V 2 A





Technical data

Control side

Rated control voltage

Nominal control current

Input frequency

Power rating Status indicator

Protective circuit

Load side

Rated switching voltage

Continuous current

Inrush current

Contact type Voltage drop at max. load

Leakage current

Protective circuit, load side

Short-circuit-proof

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals

Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

24 V UC ±20 %

10 mA DC ±20 %, 10 mA AC ±20 %

AC: 5 Hz / DC: 10 Hz

230 mW / 280 mVA

Green LED

5...48 V DC

20 mA

1 NO contact (Transistor)

≤ 1 V

Free-wheeling diode

No

-25 °C...50 °C

-40 °C 85 °C

40 °C / 93 % rel. humidity, no condensation

CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs)

 $1\,\mathrm{kV}_\mathrm{eff}$ / $1\,\mathrm{s}$

4 kV_{eff} / 1 Min.

≥ 5.5 mm Ш

2

24 V UC ±20 %

10 mA DC ±20 %, 10 mA AC ±20 %

AC: 10 Hz / DC: 30 Hz

195 mW / 220 mVA

LED

24 VDC ±20%

2 A

1 NO contact (Transistor)

≤ 1.8 V

Varistor Yes

-25 °C...40 °C

-40 °C 60 °C

 $40~^{\circ}\text{C}$ / 93~% rel. humidity, no condensation

CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs)

 $1 \, kV_{eff} / 1 \, s$ 4 kV_{eff} / 1 Min.

≥ 5.5 mm

Ш

2

-					

Note

Clamping range (nominal / min. / max.)

Depth x width x height

mm² mm

1.5 / 0.5 / 1.5 63.2 / 6.1 / 91

Tension-clamp connection

Further technical data can be found at eshop.weidmueller.com

Tension-clamp connection 1.5 / 0.5 / 1.5

63.2 / 6.1 / 91

Further technical data can be found at eshop.weidmueller.com

Ordering data

Tension clamp connection

Qty. Order No. Type MCZ 0 24VUC 8365940000

Туре	Qty.	Order No.
MCZ O 24VUC	10	8287730000

Note

Accessories

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page

Туре	Qty.	Order No.
MCZ O 24VUC	10	8287730000

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page

Note

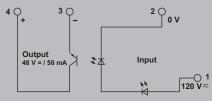
Weidmüller 🏖 B.192

MCZ 0

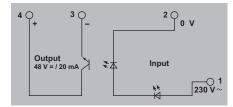
- Universal interface between controller and sensor/ actuator
- Tension-clamp connection system
- · Plug-in cross-connection
- 6 mm modular wide

120 V UC









Technical data

Control side

Rated control voltage Nominal control current

Input frequency

Power rating

Status indicator

Protective circuit

Load side

Rated switching voltage

Continuous current

Inrush current

Contact type

Voltage drop at max. load

Leakage current

Protective circuit, load side

Short-circuit-proof

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side Overvoltage category

Pollution degree

120	V UC +5 / -15	%
_		_

3 mA DC (±10 %), 3 mA AC (±10 %)

AC: 5 Hz / DC: 20 Hz

350 mW / 400 mVA

Green LED

5...48 V DC

50 mA

1 NO contact (Transistor)

1.6 V ≤ 1 mA

Free-wheeling diode

No

-25 °C...40 °C

-40 °C 60 °C

40 °C / 93 % rel. humidity, no condensation CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs) $1 \, kV_{eff} / 1 \, s$

4 kV_{eff} / 1 Min.

≥ 5.5 mm Ш

2

230 V AC +5 % / -15 %
10 mA AC ±20 %
AC: 5 Hz duty factor 1:2
2.3 VA
Green LED

5...48 V DC 20 mA

230 V AC

1 NO contact (Transistor)

1.6 V

≤ 1 mA

Free-wheeling diode

No

-25 °C...40 °C

-40 °C 60 °C

 $40~^{\circ}\text{C}$ / 93~% rel. humidity, no condensation

CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs)

 $1 \, kV_{eff} / 1 \, s$

4 kV_{eff} / 1 Min.

≥ 5.5 mm

Ш

2

Clamping range (nominal / min. / max.) mm² Depth x width x height mm

Note

Tension-clamp connection

1.5 / 0.5 / 1.5 63.2 / 6.1 / 91

Further technical data can be found at eshop.weidmueller.com

Ì	Tension-clamp connection
	1.5 / 0.5 / 1.5
	63.2 / 6.1 / 91
	Further technical data can be found at eshop.weidmueller.com

Ordering data

Tension clamp connection

Туре	Qty.	Order No.
MCZ 0 120VUC	10	8421060000

Туре	Qty.	Order No.
MCZ O 230VAC	10	8421380000

Note

Accessories

Note

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page

Weidmüller № B.193

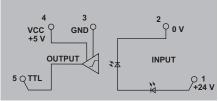
3043770000

MCZ 0

- Universal interface between controller and sensor/
- Tension-clamp connection system
- · Plug-in cross-connection
- 6 mm modular wide

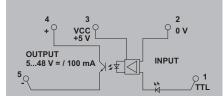
24 V DC / 5 V TTL





5 V TTL / 5...48 V DC





Technical data

Control side

Rated control voltage

Nominal control current

Input frequency

Power rating

Status indicator Protective circuit

Load side

Rated switching voltage

Continuous current Inrush current

Contact type

Voltage drop at max. load

Leakage current

Protective circuit, load side

Short-circuit-proof

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side Overvoltage category

Pollution degree

24 V DC ±16 % 5 mA DC (±20 %)

100 kHz

112 mW

Green LED

5 V TTL

8 ma, Fan out = 20 LS-TTL

1 NO contact (TTL)

Diode circuit

No

-25 °C...40 °C -40 °C 60 °C

40 °C / 93 % rel. humidity, no condensation

CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs) $1 \, kV_{eff} / 1 \, s$

4 kV_{eff} / 1 Min. ≥ 5.5 mm

Ш 2

5 V TTL 1.65 mA DC 2.4 kHz 10 mW Green LED

5...48 V DC

0.1 A

1 NO contact (TTL)

≤ 1.8 V

Diode circuit

No

-25 °C...40 °C

-40 °C 60 °C

 $40~^{\circ}\text{C}$ / 93~% rel. humidity, no condensation

CE; CSA; cURus; UKCA

300 V

6 kV (1.2/50 μs)

 $1 \, kV_{eff} / 1 \, s$

4 kV_{eff} / 1 Min. ≥ 5.5 mm

Ш

2

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Tension-clamp connection

1.5 / 0.5 / 1.5

63.2 / 6.1 / 91

Further technical data can be found at eshop.weidmueller.com

	Tension-clamp connection
	1.5 / 0.5 / 1.5
	63.2 / 6.1 / 91
ĺ	Further technical data can be found at eshop.weidmueller.com

Ordering data

Tension clamp connection

Туре	Qty.	Order No.
MCZ O 24VDC	10	8324610000

Туре	Qty.	Order No.
MCZ O 5VTTL	10	8398940000

Note

Accessories

Note

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page.

End plate AP MCZ 1.5: 8389030000 Accessories and dimensional drawings: refer to the MCZ Accessories page

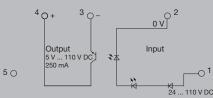
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MCZ O TRAK

- Component for railway engineering
- Meets the requirements of EN 50155
- \bullet Voltage fluctuations of -30% / +25%
- Operating temperature: -25 °C...+70 °C (85 °C / 10 min.) acc. to EN 50155
- Condensation permissible







Technical data

Control side

Rated control voltage Nominal control current

Input frequency

Power rating

Status indicator

Protective circuit

Load side

Rated switching voltage

Continuous current

Inrush current

Contact type

Voltage drop at max. load

Leakage current

Protective circuit, load side

Short-circuit-proof

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree 24...110 V DC -30 / +25 %

2.8 mA DC

10 Hz

Green LED

5...137.5 V DC

250 mA @ 50 °C 1 NO contact (Transistor)

≤ 1.7 V

Varistor, Free-wheeling diode

No

-25 °C...70 °C

 $95\ \%$ for 30 days, minimal condensation to EN $\underline{50155}$

CE; UKCA

300 V

300 V 6 kV (1.2/50 μs) 1 kV_{eff} / 1 s

4 kV_{eff} / 1 Min. ≥ 5.5 mm

III

2

Dimensions	
Clamping range (nominal / min. / max.)	

Depth x width x height mm Note

Tension-clamp connection 1.5 / 0.5 / 1.5

1.5 / 0.5 / 1.5

Further technical data can be found at eshop.weidmueller.com

Ordering data

Tension clamp connection

mm²

Туре	Qty.	Order No.
MCZ O TRAK 24.110VDC	10	8820710000

Note

Accessories

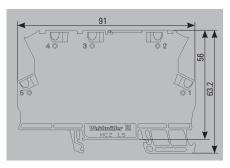
Note

End plate AP MCZ 1.5: 8389030000
Accessories and dimensional drawings: refer to the MCZ Accessories page.

3043770000 **Weidmüller № B.195**

MCZ accessories





Ordering data

End plate			

Туре	Qty.	Order No.
AP MCZ 1.5	50	8389030000



Ordering data

Urdering data	
	No. of poles
Plug-in cross-connection, orange	2
Plug-in cross-connection, orange	3
Plug-in cross-connection, orange	4
Plug-in cross-connection, orange	10
Plug-in cross-connection, orange	20
Plug-in cross-connection, red	2
Plug-in cross-connection, red	3 4
Plug-in cross-connection, red	4
Plug-in cross-connection, red	10
Plug-in cross-connection, blue	2
Plug-in cross-connection, blue	3
Plug-in cross-connection, blue	4
Plug-in cross-connection, blue	10
Plug-in cross-connection, black	2
Plug-in cross-connection, black	3
Plug-in cross-connection, black	4
Plug-in cross-connection, black	10
Plug-in cross-connection, black	20

s	Туре	Qty.	Order No.
2	ZQV 4N/2	60	1527930000
3	ZQV 4N/3	60	1527940000
4	ZQV 4N/4	60	1527970000
0	ZQV 4N/10	20	1528090000
0	ZQV 4N/20	20	2883800000
	red		
2	ZQV 4N/2 RD	60	2460450000
3	ZQV 4N/3 RD	60	2460810000
4	ZQV 4N/4 RD	60	2460800000
0	ZQV 4N/10 RD	20	2460740000
	blue		
2	ZQV 4N/2 BL	60	1528040000
3	ZQV 4N/3 BL	60	1528080000
4	ZQV 4N/4 BL	60	1528120000
0	ZQV 4N/10 BL	20	1528230000
	black		
2	ZQV 4N/2 BK	60	2810840000
3	ZQV 4N/3 BK	60	2810880000
4	ZQV 4N/4 BK	60	2810890000
0	ZQV 4N/10 BK	20	2810830000
0	ZQV 4N/20 BK	20	2810870000



Ordering data

Terminal markers		
Screwdriver		
End bracket		

Туре	Qty.	Order No.
WS 10/6 MC NEUTRAL	600	1828450000
SDS 0.6X3.5X100	1	2749340000
WEW 35/2	50	1061200000

Application range

Application range	Overview	C.2
	TERMOPTO - Overview	C.4
	MICROOPTO - Overview	C.6
	Special loads	C.8
	Sensor isolation	C.40
	High switching frequencies	C.60
	Signal adaption	C.68
	Timing functions	C.90
	Functional safety	C.112
	Power	C.136
	Accessories	C.150

3043770000 **Weidmüller ₹ c.**1

Application range

Relay modules and solid-state relays for specific applications

In many industrial applications today, individual, customised solutions and components are used to increase system efficiency and system productivity. These include, for example, protective circuits for greater fail-safe performance, timing relays for adjusting signals, relays for functional safety and space-saving components for use in limited installation spaces.

With our application range we provide you with a customised portfolio to increase your productivity, efficiency and safety in the most diverse fields of application. What's more, we work with you to develop customised solutions, combining the advantages and features of our portfolio with our expertise and consulting

We have a wide range of products that combine application-specific designs, the latest technologies and well-proven components to meet all your requirements.



Special loads

Particularly durable solid-state relays and relay modules for low-wear switching of high inductances and inrush currents reliable, safe, and space-saving.



Timing functions

Functional safety

Reliable timing relays for delaying, extending, or clocking signals as well as for error compensation at high cycle rates or short pulses - mainly in factory and building automation.



Sensor isolation

Space-saving, reliable and fast switching solid-state relays and relay modules with gold contacts for isolating sensor signals from the field. Specially designed for reliable switching of small loads.



Standard-compliant safety relays for switching signals in safety-relevant systems and processes. Optimum fault detection and prevention for the protection of people and materials.



High switching frequencies

Specially developed solid-state relays and optocouplers for reliable and delay-free switching of extremely fast signals up to 550 kHz. Ideally suited e.g. for machines with high speeds.



Power

Special relays for switching high industrial loads. Power solid-state relays (PSSR) up to 30 A and small contactors (PWR) up to 30 A to cover different fields of application.



Signal adaptation

Space-saving solid-state relays and relay modules for adapting digital signals from external systems to the existing system environment. Costefficient use without PLC input cards.











Application range







TERMOPTO

Wear-free potential isolation in terminal block design

In many applications, it is essential that relays for potential isolation and signal adjustment perform their tasks reliably and permanently. Instead of wear-prone electromechanical solutions, maintenance-free relays with integrated potential isolation are increasingly being used.

TERMOPTO solid-state relays in terminal block design are the perfect solution for the simple and reliable decoupling of digital signals. Besides their particularly compact design, they are distinguished by their PUSH IN connection system, plug-in cross-connections and an optimal price/performance ratio.

With TERMOPTO solid-state relays, you save space in the panel, reduce your service costs and sustainably increase plant availability. You also reduce the complexity of the required accessories as you can use components from the Weidmüller portfolio, from cross-connectors to markers.

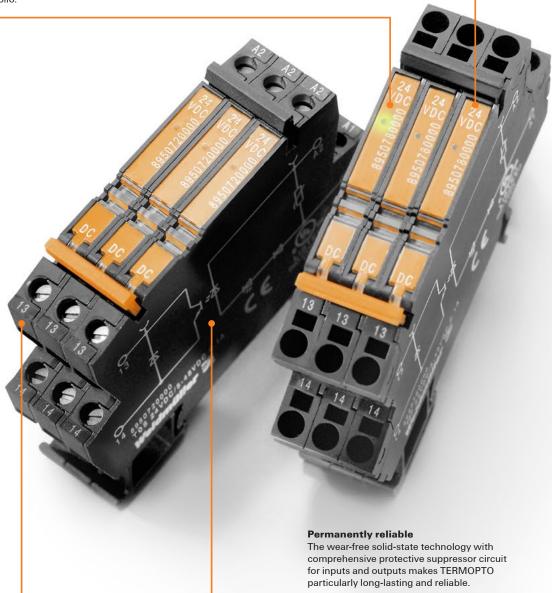
Weidmüller ₹ 3043770000

Wide voltage range

Ten input voltages from 5 V DC to 230 V AC, a particularly compact multi-voltage input for 48 to 60 V DC and a variant for input voltages from 48 to 60 V AC ensure a high level of flexibility.

Well-designed all round

The LED status indicator provides information about the switching status. Suitable accessories from cross-connectors to continuous marking solutions can be procured from the Weidmüller portfolio.



Extremely compact

The compact design with a width of just 6.1 mm reduces the space required in the panel by more than 80% compared to conventional solid-state relays.

3043770000 **Weidmüller ₹ c.**5

MICROOPTO

Compact and powerful solid-state relays in terminal block design

Saving space in the panel is becoming more and more important, and requires increasingly compact components. With the compact and powerful MICROOPTO solid-state relays, you benefit from our decades of experience in manufacturing products in terminal block design.

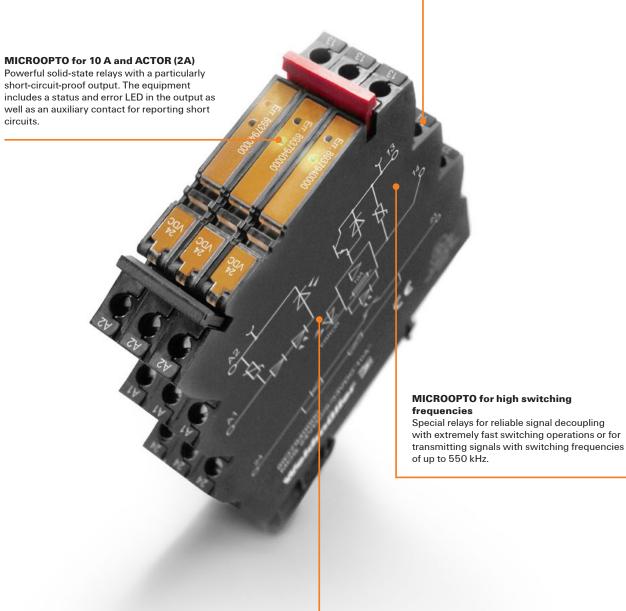
The MICROOPTO family comprises high-quality solid-state relays for application-specific problem solving and delivers high performance in a width of just 6.1 mm. The wide range of accessories from plug-in cross-connections to end-to-end marking solutions makes it particularly versatile. Thanks to international approvals, they can be used worldwide. Reliable function is ensured by the integrated protective suppressor circuit for inputs and outputs.

The wide MICROOPTO portfolio includes a range of solutions for special loads. For example, for inductive loads up to 10 A at 24 V DC or for DC loads up to 300 V. In addition, there are solutions for decoupling 5 V TTL inputs and outputs, for frequencies up to 550 kHz, as well as the 1 CO contact version for inverting signals.

Weidmüller ₹ 3043770000

MICROOPTO for signal adjustment

Available in special versions for the transmission of 5 V TTL signals to PLC systems and industrial computers – or equipped with 1 CO contact output for inverting signals.



MICROOPTO for 300 V DC

Special solid-state relays for DC voltages up to 300 VDC, 1 A. The integrated protective suppressor circuit also enables the switching of inductive loads with high DC voltages.

3043770000 **Weidmüller 5 c.**7

Special loads

Reliably switch or monitor inductive, capacitive and high loads

If special loads such as inductivities or high inrush currents are to be switched or monitored safely and reliably, you need individually tailored relay modules and solid-state relays. These customised solutions extend the service life of the switching element and, what's more, they can be installed in the panel in a space-saving manner thanks to optimised connection options.



Capacitive loads

Many loads with capacitive load components are now concealed in upstream pre-circuits, e.g. in solenoid valves, contactors or power supplies for LED lighting. These pre-circuits can contain capacitors that generate high inrush current peaks of up to 150 A. Such current peaks can lead to welding of the output contacts or destroy the output. To avoid this, special relay modules and solid-state relays from our portfolio are used.



High DC voltages

Standard relay modules can only switch relatively low DC currents because they lack the zero crossing to extinguish the light arc. Their maximum DC current value also depends on the switching voltage as well as the design conditions such as contact gap and contact opening speed. Our power relays for switching high DC loads have a built-in blowout magnet and a large contact gap to significantly minimise contact wear.



Inductive loads

Switching inductive loads, e.g. solenoid valves, can cause electric arcs with voltage peaks of up to several thousand volts. They are caused during the switching process by the energy stored in the coil and can destroy the contact through material evaporation and material migration. With high DC voltage and a continuous light arc, the relay can even fail during the first switching cycle. In order to suppress the formation of electric arcs, you need to use an external protective suppressor circuit. We offer special products for switching inductive loads, which have a special overload or protective suppressor circuit for the output, for example.



Wiring-optimised variants

The optimisation of wiring time and space requirements is becoming increasingly important. Our versions with snap-on PE foot allow for fast wiring of actuators where a PE contact is required. This means that no additional PE terminal is required in the panel. Our 1 NO contact variants allow the use of a connection on the relay socket for wiring the negative or neutral conductor potential. Therefore, the negative potential is bridged to the designated connection with the aid of a power-feed terminal in order to wire the actuators directly - without an additional terminal for the negative potential.



Visit our website for more information www.weidmueller.com/sl

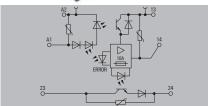
3043770000

For switching valves up to 24 VDC 10 A

- Width only 6 mm
- Plug-in cross-connector
- . For mounting on TS 35
- · Status display and error signaling contact with an error in the output

24 V DC / 5-33 V DC 10 A





Technical data

Control side

Rated control voltage

Power rating

Input frequency

Status indicator Protective circuit

Load side

Solid-state type Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals

Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

24 V DC ±20 %	
400 mW	
50 Hz	
Green LED	
Varistor, Reverse polarity protection	

Varistor, Reverse polarity protection		
POWER MOS-FET		
533 V DC		
10 A		
approx. 100 mV		
<1 mA		
Yes (limited for 4 h / current limitation external <200 A) / Current sensor, Varistor, Free-wheeling diode		
typ. 250 µs / typical. 700 µs		
≤ 11 A (≤ 200 µs)		
-25 °C60 °C		
-40 °C60 °C		
V-0		
5 - 93% rel. humidity, Tu = 40°C, no condensation		
CE; cULus; DETNORVER; UKCA		
300 V		
4 kV (1.2/50 μs)		
3 KV _{eff} / 1 Min.		
4 kV _{eff} / 1 Min.		
> 3 mm		
III		
2		

Clamping range (nominal / min. / max.) Depth x width x height

mm

Screw connection

mm²

Screw connection
2.5 / 0.5 / 4
97.8 / 6.1 / 88.1
Suppressor circuitry for inductive loads, 10 cm installation clearance to inductive

Ordering data

Туре	Qty.	Order No.
MOS 24VDC/5-33VDC 10A	1	8937940000

Note

Accessories

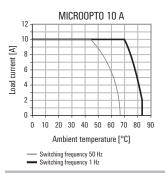
Note

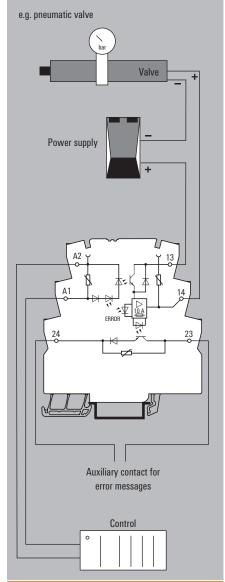
Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

The MICROOPTO SOLENOID solid-state relay is used specifically as a switching amplifier for actuators up to 24 V DC and 10 A with inductive loads such as solenoid valves and contactors.

A potential-free signalling contact transmits errors, such as short circuits, to the controller.

The MICROOPTO SOLENOID solid-state relay is short-circuit-proof and protected against power-related transients and voltage peaks by extensive protective circuits. The closed housing also offers a high level of protection against contact.



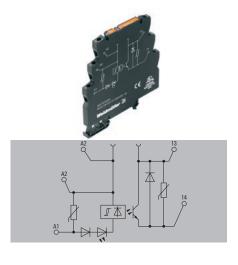


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For DC loads up to 300 V DC and 1A

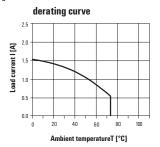
- . Only 6 mm modular width
- · Plug-in cross-connection
- Power Boost: 20 A / 20 ms, 5 A / 1 sec

12...300 V DC 1 A



The solid-state relay MICROOPTO 300 V DC has been developed as a switching amplifier for high inductive loads up to 300 V DC and 1 A in motor brakes and contactors.

A power boost in the load circuit compensates transient overloads (20 A for 20 ms / 5 A for 1 s) such as making or breaking spikes. Additional protective circuits counter higher overloads.



z. B. Example: motor brake

Technical data

Control side

Rated control voltage

Power rating

Input frequency

Status indicator Protective circuit

Load side

Solid-state type Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

24 V DC ±20 %
0.36 W
5060Hz
Green LED
Varistor, Reverse polarity protection

POWER MOS-FET

12...300 V DC

1 A

≤ 0.4 V

<1 µA

No / Varistor, Free-wheeling diode

<18 µs / <1 ms

27 A (10 ms)

-25 °C...60 °C

-40 °C...80 °C V-N

5-95% relative humidity, $T_u = 55$ °C, without condensation

CE; cULus; DETNORVER; UKCA

300 V

2.5 kV (1.2/50 μs)

3 KV_{eff} / 1 Min.

4 kV_{eff} / 1 Min.

> 3 mm

III 2

Clamping range (nominal / min. / max.) mm² Depth x width x height mm

Ordering data

Screw connection

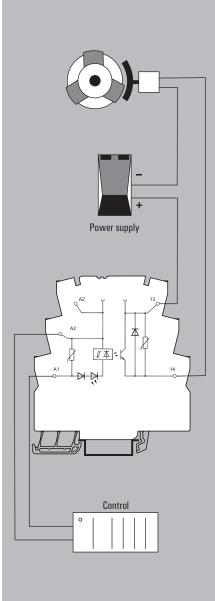
Screw connection	
2.5 / 0.5 / 4	
97.8 / 6.1 / 88.1	

Type	uty.	Oruci No.
MOS 24VDC/12-300VDC 1A	1	8937830000

Accessories

Note

Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



Note

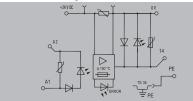
Weidmüller 3€ C.11 3043770000

For direct connection of actuators up to 24 V DC 2 A

- Only 6 mm modular width
- Plug-in cross-connection
- · PE connection direct to mounting rail
- · Status display when error in output

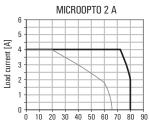
8...30 V DC 2 A

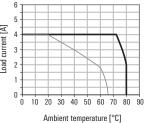




The solid-state relay MICROOPTO ACTOR has been specifically designed as a switching amplifier for actuators up to 24 V DC and 2 A with inductive loads such as solenoid valves and contactors. 3-wire actuators can be connected directly to the module.

This is short-circuit proof and protected against application-related transients and spikes by extensive protective circuitry.





Switching frequency 100 Hz
Switching frequency 1 Hz

Technical data

Control side

Rated control voltage

Power rating

Input frequency Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage Continuous current

Voltage drop at max. load

Leakage current

Load side status indicator

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals Insulation coordinates

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

Rated voltage

24 V DC ±20 %
≤ 170 mW
125 Hz
No
Varistor, Reverse polarity protection
Intelligent POWER MOS-FET
830 V DC
2 A
≤ 50 mV
<10 μA
LED green, output switched, LED red, short-circuit /overload at the
output
Yes (thermal cut-out) / Varistor, Free-wheeling diode

0.1 ms / < 0.5 ms

-25 °C 60 °C -40 °C...80 °C

V-0

5-95% relative humidity, $T_u = 55$ °C, without condensation

CE; cULus; DETNORVER; UKCA

30 V

500 V (1,2/50 μ)

350 V_{eff} / 1 min.

350 V_{eff} / 1 min.

Screw connection 2.5 / 0.5 / 4 97 / 6.1 / 88.1

Ш

at the	

mm²
mm

Ordering data

Screw connection

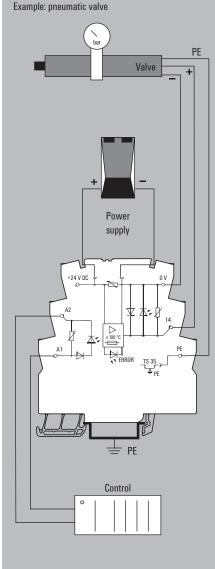
Qty.	Order No.
1	8937970000
	Qty. 1

Accessories

Note

Note

Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



3043770000

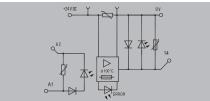
Weidmüller 🏖

For direct connection of actuators up to 24 V DC 2 A

- Width only 6 mm
- Plug-in cross-connector
- . Status display when error in output

24 V DC / 8-30 V DC 2 A E





The solid-state relay MICROOPTO ACTOR has been specifically designed as a switching amplifier for actuators up to 24 V DC and 2 A with inductive loads such as solenoid valves and contactors. 2-wire actuators can be connected directly to the module. This is short-circuit proof and protected against application-related transients and spikes by extensive

protective circuitry.

Technical data

Control side

Rated control voltage

Power rating

Input frequency

Status indicator Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current Voltage drop at max. load

Leakage current

Load side status indicator

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity Approvals

Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

24 V DC ±20 %
≤ 170 mW
10 Hz
No
Varistor, Reverse polarity protection
Intelligent POWER MOS-FET
830 V DC
2 A
≤ 50 mV
<10 μΑ
LED green, output switched, LED red, short-circuit /overload at the
output
Yes (thermal cut-out) / Varistor, Free-wheeling diode

-25 °C 60 °C -40 °C...80 °C V-0 5-95% relative humidity, $T_u = 55$ °C, without condensation

CE; UKCA

0.1 ms / < 0.5 ms

30 V

500 V (1,2/50 μ) 350 V_{eff} / 1 min.

350 V_{eff} / 1 min.

Ш

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Ordering data

Screw	connection	

Accessories

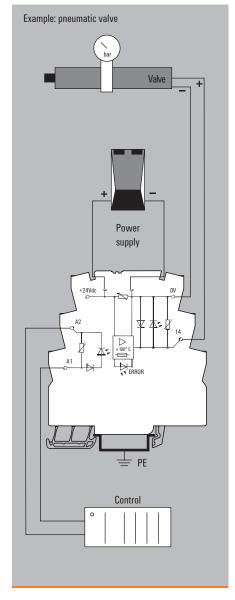
Note

Note

Screw connection
2.5 / 0.5 / 4
97.8 / 6.1 / 88.1

Туре	Qty.	Order No.
MOS 24VDC/8-30VDC 2A E	10	1283230000

Accessories and dimensional drawings: refer to the MICROOPTO Accessories page



Weidmüller № C.13 3043770000

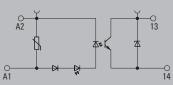
Solid-state relay, 3...33 V DC / 4 A $\,$ **Output versions**

- Space-saving 6.1 mm width
- Plug-in cross-connections
- Screw and PUSH IN wire connection
- Enclosed design





24 V DC



Technical data

Load side	
Rated switching voltage	333 V DC
Continuous current	4 A
Inrush current	
Solid-state type	MOS-FET
Voltage drop at max. load	90 mV
Leakage current	<10 μA
Protective circuit, load side	Varistor
Short-circuit-proof / Protective circuit, load side	No / Varistor
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C80 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	> 3 mm
Overvoltage category	III
Pollution degree	2

Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		Accessories and dimensioned drawings: see accessories page from TERMOPTO	

Ordering data

Control side

Rated control voltage Nominal control current Power rating

max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit

24 V DC
24 V DC ±20 %
7 mA DC
≤ 170 mW
10 Hz
Green LED
Varistor, Reverse polarity
protection

Ordering data

Screw connection PUSH IN connection

Note

Туре Order No. Type Order No.

TOS 24VDC/24VDC 4A	
1275100000	
TOP 24VDC/24VDC 4A	
1254880000	

Weidmüller 🏖 3043770000

3043770000 **Weidmüller № C.15**

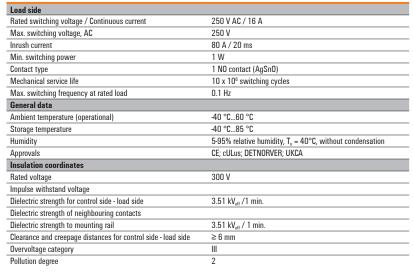
1 NO contact, inrush power HC

- Space-saving, 12.8 mm wide
- 16 A AgSnO contact
- Internal cross-connection of the output terminals
- Especially for capacitive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data



Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page. be found at eshop.weidmueller.com

Ordering data	24 V DC	24 - 230 V UC
Control side		
Rated control voltage	24 V DC ± 20 %	24230 V UC ± 10 %
Rated current AC / DC	/ 22.0 mA	23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC
Power rating	530 mW	540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC
Status indicator	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA	CE; cULus; DETNORVER; UKCA

Ordering data			
PUSH IN connection	Туре	TRP 24VDC 1NO HC	TRP 24-230VUC 1NO HC ED2
	Order No.	2618090000	2663130000
Screw connection	Type	TRS 24VDC 1NO HC	TRS 24-230VUC 1NO HC ED2
	Order No.	1479780000	2662970000
Note			

C.16 *Weidmüller* **₹** 3043770000

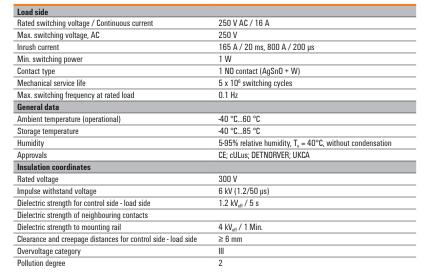
1 NO contact, inrush power HCP

- Space-saving, only 12.8 mm wide
- 16 A AgSnO contact + leading tungsten contact
- Internal cross-connection of the output terminals
- Especially for capacitive loads
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data



Dimensions	1	PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page. be found at eshop.weidmueller.com

DC Input NO AC/DC Input A2 DC load breaking capacity Resistive load DC load breaking capacity Resistive load Switching current [A]

Ordering data	24 V DC	24 V - 230 V UC
Control side		
Rated control voltage	24 V DC ± 20 %	24230 V UC ± 10 %
Rated current AC / DC	/ 22.0 mA	23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC
Power rating	530 mW	540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC
Status indicator	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA	CE; cULus; DETNORVER; UKCA

Ordering data			
PUSH IN connection	Type	TRP 24VDC 1NO HCP	TRP 24-230VUC 1NO HCP ED2
	Order No.	2617930000	2663140000
Screw connection	Type	TRS 24VDC 1NO HCP	TRS 24-230VUC 1NO HCP ED2
	Order No.	1479810000	2662980000
Note			

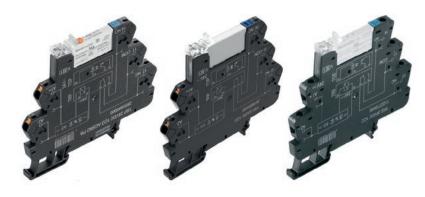
3043770000 **Weidmüller № C.17**

1 NO contact (actuator)

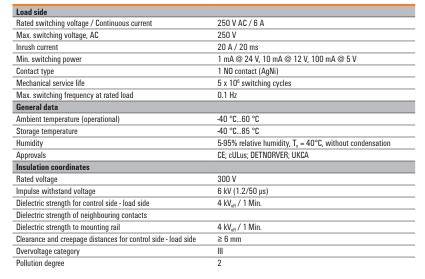
- Space-saving, only 6.4 mm wide
- · AgNi contact
- PUSH IN and screw connection
- 24 V DC actuator version:

Bridgeable, potential-free connection in the output (DC)

• Optional with test button



Technical data



Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

DC Input DC load breaking capacity Resistive load Place trical endurance 250 V AC resistive load 250 V AC resistive load

Ordering data	24 V DC ACT
Control side	
Rated control voltage	24 V DC ± 20 %
Rated current AC / DC	/ 11.5 mA
Power rating	280 mW
Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection

24VDC ACT PB
24 V DC ± 20 %
/ 11.5 mA
280 mW
Green LED
Free-wheeling diode, Reverse polarity protection

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Туре
	Order No.
Note	

TRP 24VDC ACT
2618230000
TRS 24VDC ACT
1381900000

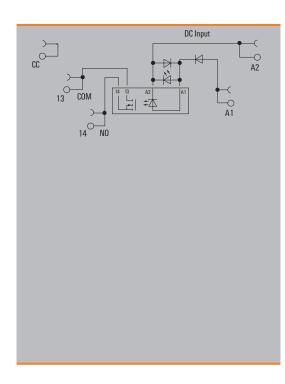
TRP 24VDC ACT PB	
2855840000	
TRS 24VDC ACT PB	
2855850000	Ī

C.18 Weidmüller № 3043770000

Solid-state relay, 3...33 V DC / 2 A actuator versions

- Space-saving, only 6.4 mm wide
 AgNi contact
 PUSH IN and screw connection

- 24 V DC actuator version: Bridgeable, potential-free connection in the output (CC)







Technical data

Load side	
Rated switching voltage	333 V DC
Continuous current	2 A
Inrush current	15 A / 10 ms
Contact type	1 NO contact (MOS-FET)
Voltage drop at max. load	≤ 120 mV
Leakage current	<10 µA
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff}
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

Ordering data	24 V DC
Control side	
Rated control voltage	24 V DC ±20 %
Nominal control current	11.5 mA DC (±10 %)
Power rating	280 mW
max. switching frequency (DC control voltage) max. switching frequency (AC	300 Hz
control voltage)	
Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	Order No.
Note	

TOP 24VDC ACT	
2618750000	
TOS 24VDC ACT	_
1391680000	
	ı
	ı
	4

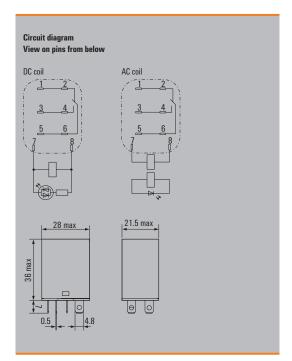
Weidmüller **ॐ** C.19 3043770000

DRL power relay

1 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



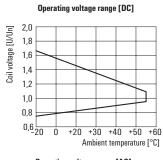


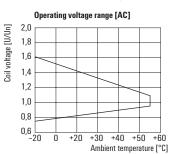
Technical data

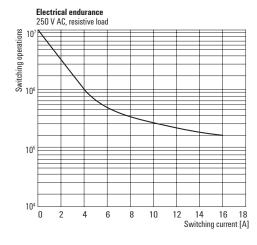
Load side	
Rated switching voltage / Continuous current	250 V AC / 16 A
Max. switching voltage, AC	250 V
Inrush current	80 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

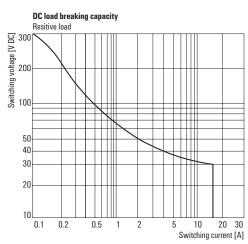
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com

Applications



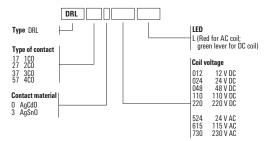






C.20 Weidmüller № 3043770000

DRL power relay 1 CO contact, AC/DC coil



Ordering data			
Control side			
Rated control voltage Rated current AC / DC			
Power rating Status indicator			

12 V DC	
 12 V DC	
/ 75 mA	
0.9 W	
Green LED	

24 V DC	
24 V DC	
/ 36.9 mA	
0.9 W	
U.S W	
Green LED	

48 V DC
48 V DC
/ 18.5 mA
0.9 W
Green LED

220 V DC
220 V DC
/ 5.2 mA
0.9 W
Green LED

Ordering data						
1 CO contact	Туре	DRL173012L	DRL173024L	DRL173048L	DRL173110L	DRL173220L
	Order No.	2765100000	2765110000	2765120000	2765130000	2765140000
	Type					
	Order No.					
Note						

Ordering data			
Control side			
Rated control voltage Rated current AC / DC			
Rated current AC / DC			
Power rating			
Status indicator			

24 V AC			
24 V AC			
54 mA /			
1.2 VA			
red LED			

115 V AC			
115 V AC			
12,9 mA /			
1.2 VA			
red LED			

230 V AC
230 V AC
6.8 mA /
1.2 VA
red LED

Ordering data				
1 CO contact	Туре	DRL173524L	DRL173615L	DRL173730L
	Order No.	2765370000	2765380000	2765390000
	Туре			
	Order No.			
Note				

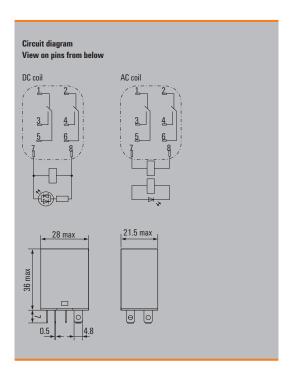
3043770000 **Weidmüller № C.21**

DRL power relay

2 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



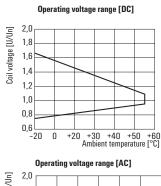


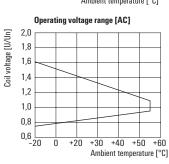
Technical data

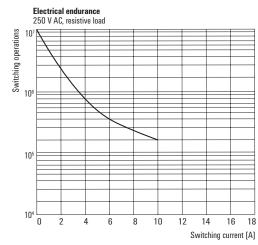
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	2 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	1.2 kV _{eff} /1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

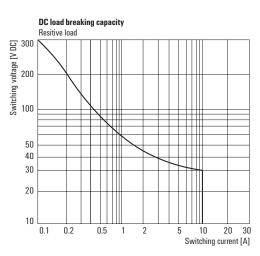
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 21.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com

Applications



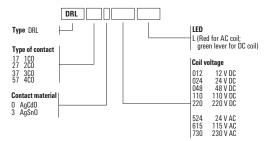






C.22 Weidmüller ₹ 3043770000

DRL power relay 2 CO contact, AC/DC coil



Ordering data	
Control side	
Rated control voltage Rated current AC / DC	
Power rating Status indicator	

	12 V DC
	12 V DC
	/ 75 mA
	0.9 W
_	Green LED

24 V DC
24 V DC
/ 36.9 mA
0.9 W
Green LED

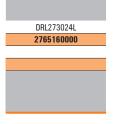
48 V DC
48 V DC
/ 18.5 mA
0.9 W
Green LED

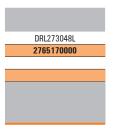
110 V DC	
110 V DC	
/ 10 mA	
0.9 W	
Green LED	

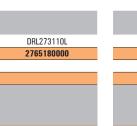
220 V DC
220 V DC
/ 5.2 mA
0.9 W
Green LED

Туре
Order No.
Туре
Order No.









DRL273220	L
276519000	0

Ordering data	
Control side	
Rated control voltage Rated current AC / DC	
Power rating Status indicator	

24 V AC	
24 V AC	
54 mA /	
1.2 VA	
red LED	

1	15 V AC
	115 V AC
	12,9 mA /
	1.2 VA
	red LED

230 V AC
230 V AC
6.8 mA /
1.2 VA
red LED

Ordering data	
2 CO contacts	Туре
	Order No.
	Type
	Order No.
Note	

DRL273524L
2765400000

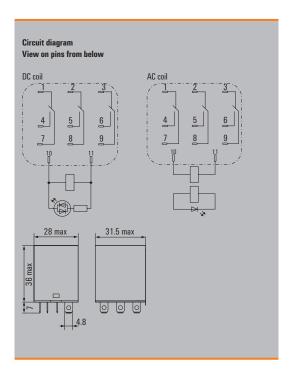
DRL273615L
2765410000

DRL273730L	
2765420000	

DRL power relay 3 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



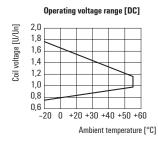


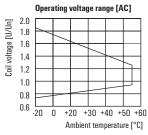
Technical data

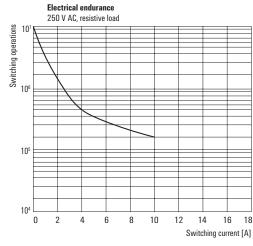
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	3 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

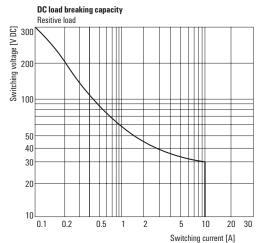
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 36 / 31.5 / 28
Note	Further technical data can be found at eshop.weidmueller.com

Applications



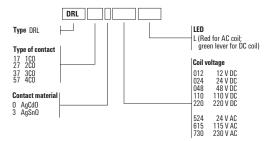






C.24 Weidmüller ₹ 3043770000

DRL power relay 3 CO contact, AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

	12 V DC
Ī	12 V DC
Ī	/ 120 mA
	1.4 W
	Green LED

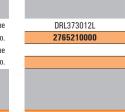
24 V DC	
24 V DC	
/ 60 mA	
1.4 W	
Green LED	

48 V DC	
48 V DC	
/ 30 mA	
1.4 W	
Green LED	

110 V DC	
110 V DC	
/ 13.1 mA	
1.4 W	_
Green LED	_

220 V DC	
220 V DC	
/ 6.7 mA	
1.4 W	
Green LED	

Ordering data 3 CO contacts Type Order No. Туре Order No. Note









_	
	DRL373220L
	2765250000

Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

2	4 V AC
2	4 V AC
	80 mA /
	2 VA
	red LED

115 V AC	
115 V AC	
16 mA/	
2 VA	
red LED	

230 V AC
230 V AC
10 mA /
2 VA
red LED

Ordering data 3 CO contacts Туре Order No. Туре Order No. Note



DRL373615L
2765440000

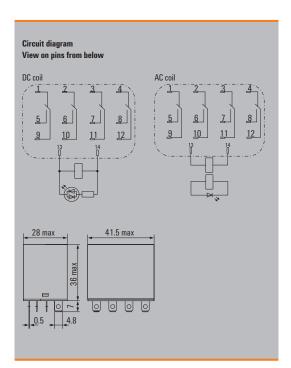
DRL373730L	
2765450000	

DRL power relay

4 CO contact, AC/DC coil

- High wear resistance in case of AC loads
- High dielectric strength: 2,000 V



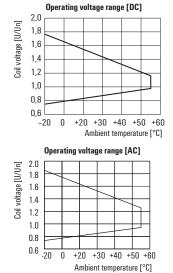


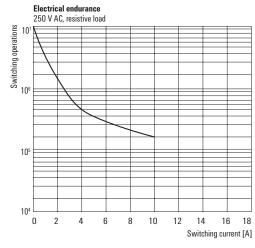
Technical data

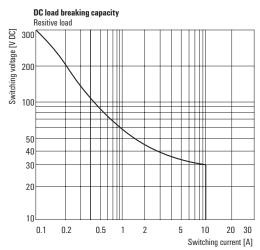
Load side	
Rated switching voltage / Continuous current	250 V AC / 10 A
Max. switching voltage, AC	250 V
Inrush current	50 A / 50 ms
Min. switching power	10 mA @ 12 V
Contact type	4 CO contact (AgSnO)
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	35 % to 85 % relative humidity level
Approvals	cURus
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 4 mm
Overvoltage category	III
Pollution degree	3

Flat blade connections (4.8 mm x 0.5 mm)
mm 36 / 41.5 / 28
Further technical data can be found at eshop.weidmueller.com

Applications

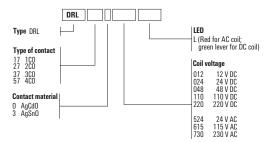






C.26 Weidmüller ₹ 3043770000

DRL power relay 4 CO contact, AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

12 V DC	
12 V DC	
/ 125 mA	
1.5 W	
Green LED	

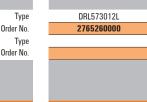
24 V DC
24 V DC
/ 66.7 mA
1.5 W
Green LED

48 \	/ DC
48 \	/ DC
/ 31	.2 mA
1.5	i W
Gree	n LED

110 V DC	
 110 V DC	
/ 16.2 mA	
 1.5 W	
 Green LED	

220 V DC	
220 V DC	
/ 7.6 mA	
1.5 W	
Green LED	

Ordering data 4 CO contacts Type Order No. Туре Order No. Note









DRL573220L
2765300000

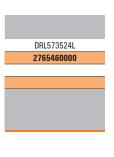
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

24 V AC
24 V AC
/ 93.5 mA
2.5 VA
red LED

115 V AC	
115 V AC	
/ 25.5 mA	
2.5 VA	
red LED	

230 V AC
230 V AC
/ 13.1 mA
2.5 VA
red LED

Ordering data 4 CO contacts Туре Order No. Туре Order No. Note



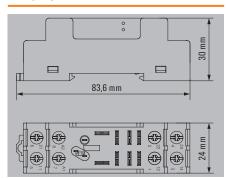
DRL573615L
2765470000

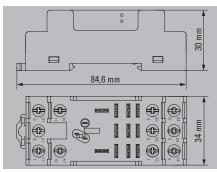
DRL573730L
2765480000

Accessories for DRL relays

Socket module with leaf spring connection, 2 CO contacts

Socket module with leaf spring connection, 3 CO contacts









250 V AC 250 V

250 V AC
250 V
10 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.81 Nm
8 mm

230 V
10 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.81 Nm
8 mm

Ordering data

Note

Tightening torque Stripping length, rated connection

Technical data Load side Rated switching voltage

Continuous current General data

Max. switching voltage, AC

Impulse withstand voltage Connection data

Clamping range (nominal / min. / max.)

Ambient temperature (operational) Storage temperature Approvals Insulation coordinates Protection degree

	Base, rail-mountable
Note	

Clearance and creepage distances for control side - load side Dielectric strength for control side - load side Dielectric strength of neighbouring contacts

Туре	Qty.	Order No.
SLD F 2CO	10	7760056225

r No.	Qty.	Туре
0056226	10	SLD F 3CO

Accessories Retaining clip

Metal retaining clip
LED module / protection modules
LED 110 - 230 V UC green
LED 24 - 60 V UC green
LED 6 - 24 V UC green
LED 110 - 230 V DC green and free-wheeling diode
LED 24 - 60 V DC green and free-wheeling diode
LED 6 - 24 V DC green and freewheeling diode
Free-wheeling diode 6 - 230 V DC
RC element 110 - 230 V AC; 4.7 k Ω / 10 nF
RC element 110 - 230 V AC; 100 Ω / 220 nF and LED green
RC element 6 - 230 V AC

Screwdriver, insulated PH2 SlimLine
Screwdriver, insulated PH2
Screwdriver PH2

Туре	Qty.	Order No.
DRM/DRL CLIP M	10	7760056108
RIM 3 110/230VUC	10	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	10	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

Туре	Qty.	Order No.
SLD CLIP 3CO M	10	7760056234
RIM 3 110/230VUC	10	7940018455
RIM 3 24/60VUC	10	7760056018
RIM 3 6/24VUC	10	7940018457
RIM 2 110/230VDC	10	7760056017
RIM 2 24/60VDC	10	7760056016
RIM 2 6/24VDC	10	7760056015
RIM 1 6/230VDC	10	7760056169
RIM 3 110/230VAC	10	7760056014
RIM 3 110/230VAC LED	10	7760056045
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

Note

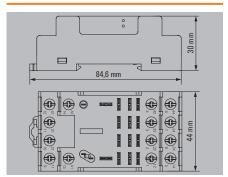
Further accessories can be found on the article at eshop.weidmueller.com

Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller 🏖 C.28

Application range

Socket module with leaf spring connection, 4 CO contacts









250 V AC
250 V
10 A
-40 °C65 °C
-40 °C85 °C
CE; cURus; UKCA
IP10
≥ 6 mm
2 kV _{eff} / 1 min
2 kV _{eff} / 1 min
4 kV (1.2/50 μs)
/ 0.5 / 2.5 mm ²
0.81 Nm
8 mm

Туре	Qty.	Order No.
SLD F 4CO	10	7760056227

Туре	Qty.	Order No.
SLD CLIP 4CO M	10	7760056235
RIM 5 6/230VDC	10	1174650000
RIM 5 6/230VAC	10	1174670000
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

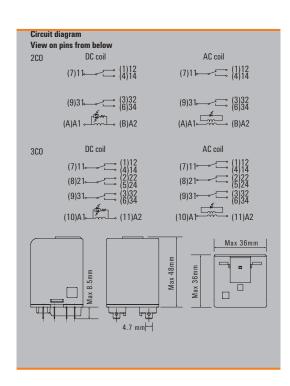
Further accessories can be found on the article at eshop.weidmueller.com

Weidmüller ₹ C.29 3043770000

DRW power relay 2 CO contact, AC/DC coil 3 CO contact, AC/DC coil

- Suitable for switching high load voltages
- With LED and test button



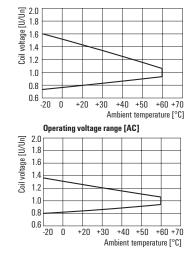


Technical data

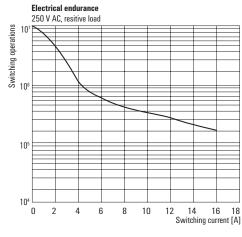
Load side	
Rated switching voltage / Continuous current	400 VAC / 16 A
Max. switching voltage, AC	400 V
Inrush current	80 A / 50 ms
Min. switching power	100 mA @ 12 V
Contact type	2 CO contact (AgSnO)
Mechanical service life	20 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C60 °C
Humidity	585 % rel. humidity, no condensation
Approvals	cURus
Insulation coordinates	
Rated voltage	400 V
Impulse withstand voltage	
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 6,3 mm
Overvoltage category	III
Pollution degree	3

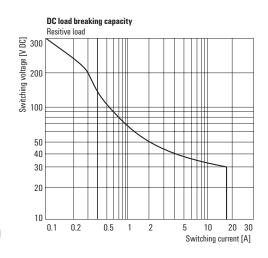
Dimensions	Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm 48 / 36 / 36
Note	Further technical data can be found at eshop, weidmueller.com

Applications



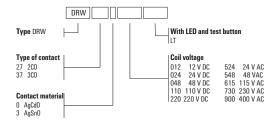
Operating voltage range [DC]





C.30 Weidmüller ₹ 3043770000

DRW power relay
2 CO contact, AC/DC coil
3 CO contact, AC/DC coil



rdering data		12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Control side						
Rated control voltage		12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	C	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	_	1.7 W	1.7 W	1.7 W	1.7 W	1.7 W
Status indicator	_	Green LED	Green LED	Green LED	Green LED	Green LED
Ordering data						
2 CO contacts	Туре	DRW273012LT	DRW273024LT	DRW273048LT	DRW273110LT	DRW273220L
	Order No.	2765590000	2765600000	2765610000	2765620000	2765630000
3 CO contacts	Туре	DRW373012LT	DRW373024LT	DRW373048LT	DRW373110LT	DRW373220L
(Order No.	2765640000	2765650000	2765660000	2765670000	2765680000
Note						
		24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Note Ordering data Control side						
Ordering data Control side Rated control voltage		24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Ordering data Control side Rated control voltage						
Ordering data		24 V AC	48 V AC 50.5 mA /	115 V AC	230 V AC	400 V AC
Ordering data Control side Rated control voltage Rated current AC / DC		24 V AC 101.7 mA /	48 V AC	115 V AC 21 mA /	230 V AC 10,6 mA /	400 V AC 6.1 mA /
Ordering data Control side Rated control voltage Rated current AC / DC		24 V AC 101.7 mA / 2.5 VA	48 V AC 50.5 mA / 2.5 VA	115 V AC 21 mA /	230 V AC 10,6 mA / 2.5 VA	400 V AC 6.1 mA /
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator		24 V AC 101.7 mA / 2.5 VA red LED	48 V AC 50.5 mA / 2.5 VA red LED	115 V AC 21 mA / 2.5 VA red LED	230 V AC 10,6 mA / 2.5 VA red LED	400 V AC 6.1 mA / 2.5 VA red LED
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator Ordering data	Type	24 V AC 101.7 mA / 2.5 VA red LED	48 V AC 50.5 mA / 2.5 VA red LED	115 V AC 21 mA / 2.5 VA red LED	230 V AC 10,6 mA / 2.5 VA red LED	400 V AC 6.1 mA / 2.5 VA red LED
Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator Ordering data		24 V AC 101.7 mA / 2.5 VA red LED	48 V AC 50.5 mA / 2.5 VA red LED	115 V AC 21 mA / 2.5 VA red LED	230 V AC 10,6 mA / 2.5 VA red LED	400 V AC 6.1 mA / 2.5 VA red LED

3043770000 **Weidmüller № C.31**

1 NO contact AC/DC coil

1 NC contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 10 A at 220 V DC

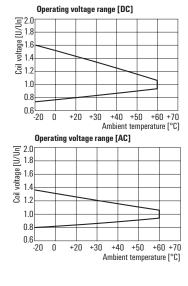


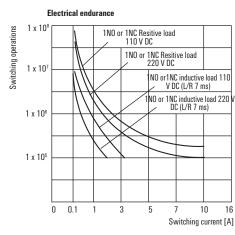
Circuit diagram View on pins from below 1NO DC coil AC coil N S S (6)34 (A)A1. (B)A2 1NC DC coil AC coil **....** (1)12 1)12 ---- (3)32 · (3)32 (A)A1 (B)A2 (A)A1 (B)A2 Max 36mm Max 48mm Max 36 mm 4.7 mm

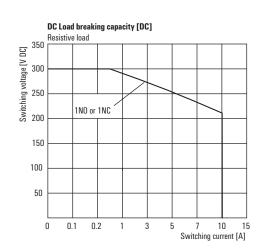
Toobnical data

Load side		
Rated switching voltage / Continuous current		500 V AC / 16 A
Max. switching voltage, AC		400 V
Inrush current		80 A / 50 ms
Min. switching power		100 mA @ 12 V
DC / AC Switching capacity (resistive), max.		2200 W @ 220 V / 8000 VA
Contact material		AgSn0
Mechanical service life		10 x 10 ⁶ switching cycles
Max. switching frequency at rated load		0.1 Hz
General data		U.1 HZ
Ambient temperature (operational)		-40 °C60 °C
		-40 C60 C -40 °C. 60 °C
Storage temperature		10 000 0
Humidity		585 % rel. humidity, no condensation
Approvals		cURus
Insulation coordinates		500 14
Rated voltage		500 V
Impulse withstand voltage		
Dielectric strength for control side - load side		4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts		
Dielectric strength to mounting rail		
Clearance and creepage distances for control side - load	l side	≥ 8 mm
Overvoltage category		III
Pollution degree		3
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)
Depth x width x height	mm	48 / 36 / 36
Note		technical data can be found at eshop,weidmueller.com

Applications



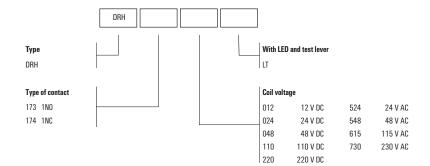




Weidmüller 🏖 3043770000

1 NO contact AC/DC coil

1 NC contact AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

12 V DC	
12 V DC	
/ 120 mA	
1.5 W	
Green LED	

24 V DC	
24 V DC	
/ 60 mA	
1.5 W	
Green LED	

48 V DC	
48 V DC	
/ 30 mA	
1.5 W	_
Green LED	

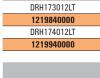
110 V DC
110 V DC
/ 13 mA
1.5 W
Green LED

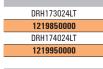
220 V DC
220 V DC
/ 6.7 mA
1.5 W
red LED

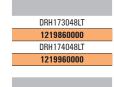
1 NO contact Type 1 NC contact

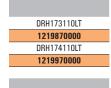
Ordering data

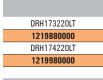
Order No.
Type
Order No.











Ordering data Test-button lock Туре Order No.







TEST LEVER BLOCK DRH/DRW
7760056249

7760056249	100
EST LEVER BLOCK DRH/DI	RW

Note



24 V AC

DRH173524LT

1219890000

DRH174524LT

1219990000





//00051	0249	

Ordering data Cor Rat

Control side	
Rated control voltage	24 V AC
Rated current AC / DC	101.7 mA /
Power rating	2.5 VA
Status indicator	red LED

48 V AC	
48 V AC	
50.5 mA /	
2.5 VA	
red LED	

115 V AC
115 V AC
21 mA /
2.5 VA
red LED

230 V AC				
230 V AC				
10,6 mA /				
2.5 VA				
red LED				

Ordering data	
1 NO contact	Туре
	Order No.
1 NC contact	Type
	Order No.
Ordering data	

Ordering data Test-button lock	
Туре	TEST LEVER BLOCK DRH/DRV
Order No.	7760056249

	1220010000
Ν	TEST LEVER BLOCK DRH/DRW
	7760056249

DRH173548LT

1219910000

DRH174548LT

DRH I / 30 I DLI
1219920000
DRH174615LT
1220020000
TEST LEVER BLOCK DRH/DRW
7760056249

DRH173615IT

DITITIONOLI
1219930000
DRH174730LT
1220030000
TEST LEVER BLOCK DRH/DRW
7760056249

DRH173730LT

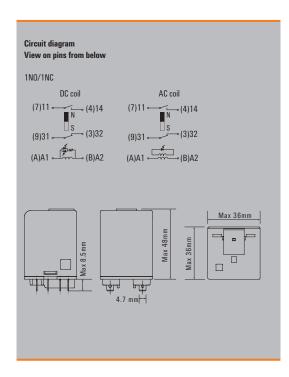
Weidmüller ₹ C.33

Note

1 NO contact / 1 NC contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC

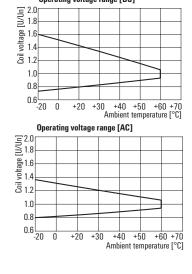




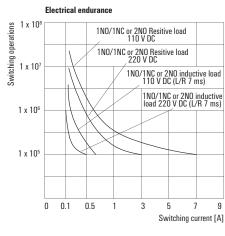
Technical data

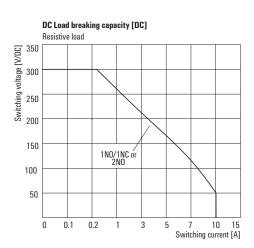
recillical data			
Load side			
Rated switching voltage / Continuous current		250 V AC / 16 A	
Max. switching voltage, AC		400 V	
Inrush current		80 A / 50 ms	
Min. switching power		100 mA @ 12 V	
DC / AC Switching capacity (resistive), max.		660 W @ 220 V / 4000 VA	
Contact material		AgSn0	
Mechanical service life		10 x 10 ⁶ switching cycles	
Max. switching frequency at rated load		0.1 Hz	
General data			
Ambient temperature (operational)		-40 °C60 °C	
Storage temperature		-40 °C60 °C	
Humidity		585 % rel. humidity, no condensation	
Approvals		cURus	
Insulation coordinates			
Rated voltage		400 V	
Impulse withstand voltage			
Dielectric strength for control side - load side		4 kV _{eff} / 1 min	
Dielectric strength of neighbouring contacts		4 kV _{eff} / 1 min	
Dielectric strength to mounting rail			
Clearance and creepage distances for control side - load	side	≥ 6,3 mm	
Overvoltage category		III	
Pollution degree		3	
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)	
Depth x width x height	mm	48 / 36 / 36	
Note	Further to	echnical data can be found at eshop.weidmueller.com	

Applications



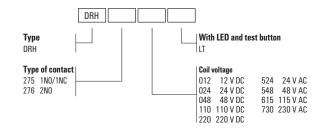
Operating voltage range [DC]





C.34 Weidmüller ₹ 3043770000

DRH DC relay 1 NO contact / 1 NC contact AC/DC coil



Ordering data	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Control side					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W				
Status indicator	Green LED				
Ordering data	_		_		
1 NO / 1 NC contact Type	DRH275012LT	DRH275024LT	DRH275048LT	DRH275110LT	DRH275220LT
Order No.	1220040000	1220050000	1220060000	1220070000	1220080000
Туре					
Order No.					
Ordering data Test-button lock					
Туре	TEST LEVER BLOCK DRH/DRW				
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					
Ordering data	24 V AC	48 V AC	115 V AC	230 V AC	
Control side					
COLLI OL SING			115 1/ 40	230 V AC	
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AG	
	24 V AC 101.7 mA /	48 V AC 50.5 mA /	21 mA /	10,6 mA /	
Rated control voltage					

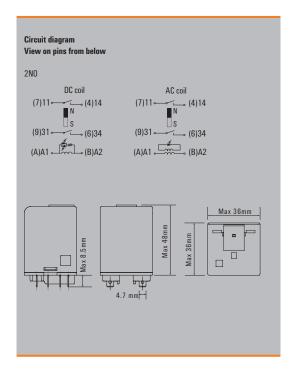
Ordering data				
1 NO / 1 NC contact Type	DRH275524LT	DRH275548LT	DRH275615LT	DRH275730LT
Order No.	1220090000	1220110000	1220120000	1220130000
Туре				
Order No.				
Ordering data				
Test-button lock				
Туре	TEST LEVER BLOCK DRH/DRW			
Order No.	7760056249	7760056249	7760056249	7760056249
Note				

Weidmüller ₹ C.35 3043770000

2 NO contact AC/DC coil

- Suitable for switching high DC loads
- With blowout magnet
- With LED and test button
- For switching high DC loads up to 3 A at 220 V DC

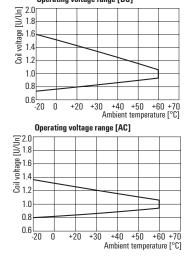




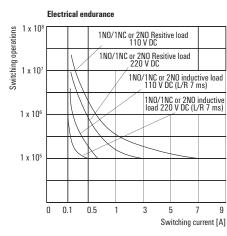
Technical data

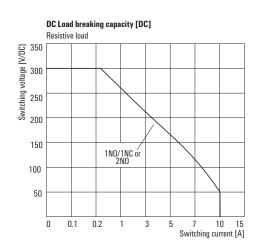
i common unta				
Load side				
Rated switching voltage / Continuous current		250 V AC / 16 A		
Max. switching voltage, AC		400 V		
Inrush current		80 A / 50 ms		
Min. switching power		100 mA @ 12 V		
DC / AC Switching capacity (resistive), max.		660 W @ 220 V / 4000 VA		
Contact material		AgSn0		
Mechanical service life		10 x 10 ⁶ switching cycles		
Max. switching frequency at rated load		0.1 Hz		
General data				
Ambient temperature (operational)		-40 °C60 °C		
Storage temperature		-40 °C60 °C		
Humidity		585 % rel. humidity, no condensation		
Approvals		cURus		
Insulation coordinates				
Rated voltage		400 V		
Impulse withstand voltage				
Dielectric strength for control side - load side		4 kV _{eff} / 1 min		
Dielectric strength of neighbouring contacts		4 kV _{eff} / 1 min		
Dielectric strength to mounting rail				
Clearance and creepage distances for control side - load	side	≥ 6,3 mm		
Overvoltage category		III		
Pollution degree		3		
Dimensions		Flat blade connections (4.8 mm x 0.5 mm)		
Depth x width x height	mm	48 / 36 / 36		
Note	Further tea	chnical data can be found at eshop.weidmueller.com		

Applications



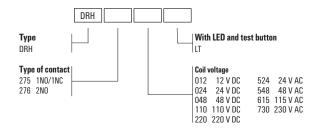
Operating voltage range [DC]





C.36 Weidmüller ₹ 3043770000

DRH DC relay 2 NO contact AC/DC coil



Ordering data	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Control side					
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Rated current AC / DC	/ 120 mA	/ 60 mA	/ 30 mA	/ 13 mA	/ 6.7 mA
Power rating	1.5 W				
Status indicator	Green LED				
Ordering data 2 NO contacts Type	DRH276012LT	DRH276024LT	DRH276048LT	DRH276110LT	DRH276220LT
2 NO contacts Type Order No.	1220140000	1220150000	1220170000	1220180000	1220190000
Type	1220140000	1220130000	1220170000	1220100000	1220130000
Order No.					
Oldor No.					
Ordering data Test-button lock					
Туре	TEST LEVER BLOCK DRH/DRW				
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249
Note					
Ordering data Control side	24 V AC	48 V AC	115 V AC	230 V AC	
Rated control voltage	24 V AC	48 V AC	115 V AC	230 V AC	
Rated current AC / DC	101.7 mA /	50.5 mA /	21 mA /	10,6 mA /	
Power rating	2.5 VA	2.5 VA	2.5 VA	2.5 VA	
Status indicator	red LED	red LED	red LED	red LED	

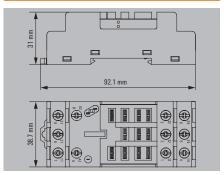
Ordering data					
2 NO contacts	Туре	DRH276524LT	DRH276548LT	DRH276615LT	DRH276730LT
	Order No.	1220200000	1220210000	1220220000	1220230000
	Type				
	Order No.				
Ordering data Test-button lock					
	Type	TEST LEVER BLOCK DRH/DRW			
	Order No.	7760056249	7760056249	7760056249	7760056249
Note					

3043770000 **Weidmüller № C.37**

C

Accessories for DRH and DRW relays

Socket module with leaf spring connection, 3 CO contacts



250 V AC 250 V

-40 °C...60 °C

-40 °C...60 °C

 $4 \, kV_{eff} / 1 \, min$

 $4 \, kV_{\text{eff}} / 1 \, \text{min}$

/ 0.5 / 4 mm² 0.5...1.2 Nm

7.3 kV (1.2/50 µs)

CE; cURus; UKCA

16 A

IP10

8 mm





Technical data

Load side
Rated switching voltage
Max. switching voltage, AC
Continuous current

General dataAmbient temperature (operational)

Storage temperature

Approvals

Insulation coordinates

Protection degree

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength of neighbouring contacts

Impulse withstand voltage

Connection data

Clamping range (nominal / min. / max.)

Tightening torque

Stripping length, rated connection

LED module / protection modules

Note

Ordering data

	Base, rail-mountable
Note	

Туре	Qty.	Order No.
SPW ECO 3CO	10	1220250000

Accessories

	KL element 6 - 230 V AL
	Free-wheeling diode 6 - 230 V DC
Retaining clip	
	Metal retaining clip
Screwdriver	
	Screwdriver, insulated PH2 SlimLine

crewdriver, insulated PH2 SlimLine
Screwdriver, insulated PH2
Screwdriver PH2

Туре	Qty.	Order No.
RIM 5 6/230VAC	10	1174670000
RIM 5 6/230VDC	10	1174650000
DRW/DRH CLIP M	10	1220260000
SDIK SLIM PH2 X 100	1	2749660000
SDIK PH2 X 100	1	2749900000
SDK PH2 X 100	1	2749420000

Note

Further accessories can be found on the article at eshop.weidmueller.com $% \left\{ \left\{ 1,2,\ldots,4\right\} \right\} =\left\{ 1,2,\ldots,4\right\}$

C.38 Weidmüller ₹ 3043770000

3043770000 **Weidmüller № C.39**

Sensor isolation

Compact and powerful solid-state relays for isolation sensor signals

In order to reliably decouple sensor signals from the field, spacesaving and fast-switching coupling elements are required. We offer special solid-state relays for sensor isolation, as well as relay modules with gold-plated contacts for reliable switching of small currents and voltages, as they typically occur when switching sensor signals.

Solid-state relay for sensor isolation

As there is often a high number of switching cycles in sensor isolation, it makes sense to use solid-state relays. They have no mechanical wear and therefore work reliably in the long term. Our solid-state relays are extremely compact and, thanks to suitable accessories, enable quick installation. By using TERMSERIES interface adapters in conjunction with pre-assembled cables, the wiring time can be reduced further.

Electromechanical relays with gold contacts

In applications where sensor isolation is only carried out at longer intervals and with low power (< 30 V/10 mA), oxide layers can form on the contacts. This usually occurs in applications where signals are forwarded to control inputs or PLC systems. Due to the low loads, there is not enough light arcing at the contacts to remove the oxide layer during switching. Therefore, relay modules with oxidation-resistant gold contacts are used.

C.40 Weidmüller № 3043770000





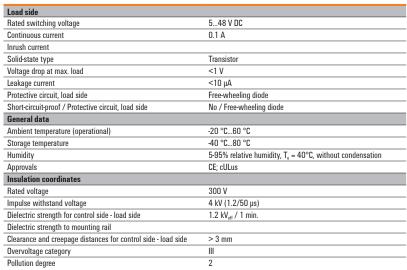
Visit our website for more information www.weidmueller.com/si

Solid-state relays 5...48 V DC / 100 mA Output versions

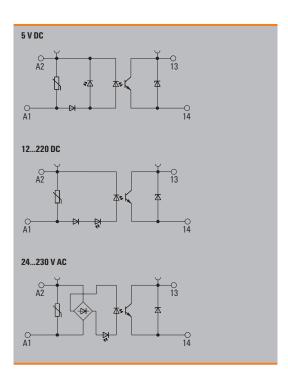
- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: ries page.	refer to the TERMOPTO



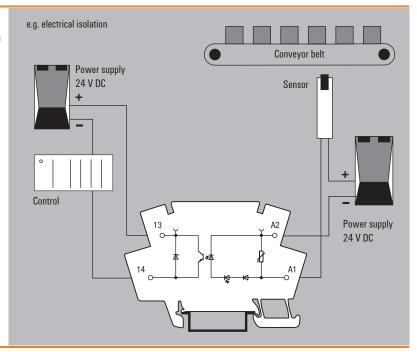
Applications

The **TERMOPTO** opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient.

The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross connection.

The choice between 10 input voltages and 3 output voltages,as well as screw or PUSH IN connection technology,gives 60 variations for different applications.

The integrated protective circuit ensures sufficient protection in applications with resistive, as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriately or an additional safeguard is used.



C.42 Weidmüller ₹ 3043770000

Solid-state relays 5...48 V DC / 100 mA Output versions

Ordering data Control side 8 ted control voltage Rated control voltage) 7.7 mA DC max. switching frequency (DC control voltage) 3000 Hz max. switching frequency (AC control voltage) Green LED Status indicator Type Order No. Protective circuit Type Order No. PUSH IN connection Type Order No. Note 220 V DC Ordering data 220 V DC Control side 220 V DC Rated control voltage 1.65 mA DC Nominal control current ≤ 360 mW Power rating ≤ 360 mW max. switching frequency (AC control voltage) Status indicator Protective circuit Green LED Varistor, Reverse polarity protection	12 V DC	24 V DC	4860 V DC	110 V DC
Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Order No. PUSH IN connection Order No. Note Drdering data Control side Rated control voltage) Max. switching frequency (DC control voltage) Order No. Note Drdering data Control side Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) max. switching frequency (AC control voltage) max. switching frequency (AC control voltage) max. switching frequency (AC control voltage) Tos 220 V DC Tob				
Power rating max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Corder No. PUSH IN connection Order No. PUSH IN connection Order No. Push in control voltage Order No. Power rating max. switching frequency (DC control voltage) max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Protective circuit Ordering data Screw connection Type TOS 5VDC/48VDC 0, 1A 8950700000 TOP 5VDC/48VDC 0, 1A 8950760000 TOP 5VDC/48VDC 0, 1A TOS 220VDC/48VDC 0, 1A TOS 220VDC/48VDC 0, 1A	12 V DC ±20 %	24 V DC ±20 %	4860 V DC ±20 %	110 V DC ±20 %
max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Ordering data Screw connection Type Order No. PUSH IN connection Type Order No. Note Order No. Note Ordering data Control side Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Ordering data Screw connection Type TOS 5VDC/48VDC 0, 1A 8950700000 TOP 5VDC/48VDC 0, 1A 8950760000 TOP 5VDC/48VDC 0, 1A TOS 220VDC/48VDC 0, 1A	7.8 mA DC	7 mA DC	4.3 mA DC	2.6 mA DC
max. switching frequency (AC control voltage) Status indicator Protective circuit Order No. PUSH IN connection Order No. Note Dracer No. Note Dracer No. Sep50700000 Top 5VDC/48VDC 0,1A Sep50760000 Top 5VDC/48VDC 0,1A Top 5VDC/48VD	<95 mW	≤ 170 mW	<200 mW	<280 mW
Status indicator Protective circuit Drdering data Screw connection Type Order No. PUSH IN connection Type Tos 5VDC/48VDC 0, 1A 8950700000 Top 5VDC/48VDC 0, 1A 10	3000 Hz	3000 Hz	500 Hz	500 Hz
Status indicator Protective circuit Directive cir				
Protective circuit Protective circuit Protective circuit Protective circuit Protection Type Order No. PUSH IN connection Order No. PUSH IN connection Order No. Protective circuit Protective circui	Green LED	Green LED	Green LED	Green LED
Ordering data Screw connection Type Order No. PUSH IN connection Type Order No. Order No. Order No. Order No. Order No. Sep50700000 TOP 5VDC/48VDC 0,1A 8950760000 TOP 5VDC/48VDC 0,1A TOS 220VDC/48VDC 0,1A	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity
Corew connection Type Order No. PUSH IN connection Type Order No. Power India at Control side Anted control voltage Vominal control current Control voltage Vominal control voltage Vominal control voltage Vomer rating Draw switching frequency (DC control voltage) Max. switching frequency (AC control voltage) Status indicator Protective circuit Protective circuit Type TOS 5VDC/48VDC 0, 1A 8950700000 TOP 5VDC/48VDC 0, 1A 8950760000 T	protection	protection	protection	protection
Cortew connection Type Order No. PUSH IN connection Type 220 V DC 220 V DC +10 % / -15 % 1.65 mA DC 2360 mW 2500 Hz 2500 Hz 2500 Hz 2500 Hz 2500 Hz 2700				
Order No. PUSH IN connection Type Order No. Order No. Order No. Order No. S950760000 TOP 5VDC/48VDC 0,1A S950760000 S				
Order No. PUSH IN connection Type Order No. Interpolation Type Order No. Interpolation Type Order No. Interpolation Type Order No. Interpolation Substitution Substitution Type Interpolation Substitution Subs	TOS 12VDC/48VDC 0,1A	TOS 24VDC/48VDC 0,1A	TOS 48-60VDC/48VDC 0,1A	TOS 110VDC/48VDC 0,1A
Order No. 8950760000 rdering data Control side Rated control voltage Rominal control current Prower rating Distance side and side an	8950710000	8950720000	8950730000	8950740000
rdering data control side lominal control current ower rating lax. switching frequency (DC ontrol voltage) lax. switching frequency (AC ontrol voltage) tatus indicator rotective circuit rotective circuit 220 V DC 1.65 mA DC ≤ 360 mW 500 Hz Variathing frequency (AC ontrol voltage) Varistor, Reverse polarity protection	TOP 12VDC/48VDC 0,1A	TOP 24VDC/48VDC 0,1A	TOP 48-60VDC/48VDC 0,1A	TOP 110VDC/48VDC 0,1A
rdering data ontrol side ated control voltage ominal control current ower rating axx. switching frequency (DC ontrol voltage) axx. switching frequency (AC ontrol voltage) tatus indicator rotective circuit rdering data crew connection Type TOS 220VDC/48VDC 0,1A	8950770000	8950780000	8950790000	8950800000
Rated control voltage Nominal control current Power rating Max. switching frequency (DC control voltage) Max. switching frequency (AC control voltage) Status indicator Protective circuit Protective circuit Protective data Screw connection Type TOS 220VDC/48VDC 0,1A	24 V AC	4860 V AC	120 V AC	230 V AC
Jominal control current Power rating 1.65 mA DC 360 mW 1.65 mA DC 360 mW 500 Hz 600 Hz				
Power rating Some state of the protection of	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % / -20 %
nax. switching frequency (DC ontrol voltage) nax. switching frequency (AC ontrol voltage) status indicator rotective circuit Ordering data Sircew connection Type TOS 220VDC/48VDC 0,1A	7.4 mA AC	4.3 mA AC	2.9 mA AC	1.75 mA AC
ontrol voltage) ax. switching frequency (AC ontrol voltage) tatus indicator Green LED Varistor, Reverse polarity protection rdering data crew connection Type TOS 220VDC/48VDC 0.1A	<0.18 VA	≤ 0.2 VA	≤ 0.3 VA	≤ 0.4 VA
ontrol voltage) tatus indicator rotective circuit Varistor, Reverse polarity protection Ordering data crew connection Type TOS 220VDC/48VDC 0.1A				
rotective circuit Varistor, Reverse polarity protection rdering data crew connection Type TOS 220VDC/48VDC 0,1A	10 Hz	10 Hz	10 Hz	10 Hz
rdering data crew connection Type TOS 220VDC/48VDC 0.1A	Green LED	Green LED	Green LED	Green LED
crew connection Type TOS 220VDC/48VDC 0,1A	Varistor	Varistor	Varistor	Varistor
Screw connection Type TOS 220VDC/48VDC 0,1A	vanstui	vanstui	vanstui	vanstui
	TOS 24VAC/48VDC 0,1A	TOS 48-60VAC/48VDC 0,1A	TOS 120VAC/48VDC 0,1A	TOS 230VAC/48VDC 0,1A
Order No. 8950750000	8950820000	8950830000	8950840000	8950850000
USH IN connection Type TOP 220VDC/48VDC 0,1A	TOP 24VAC/48VDC 0,1A	TOP 48-60VAC/48VDC 0,1A	TOP 120VAC/48VDC 0,1A	TOP 230VAC/48VDC 0,1A
Order No. 8950810000	8950860000	8950870000	8950880000	8950890000

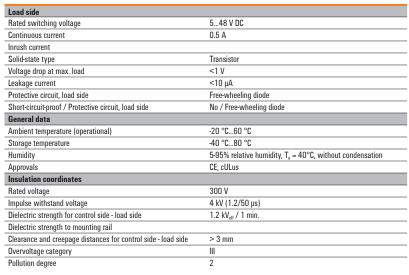
3043770000 **Weidmüller № C.43**

Solid-state relays, 5...48 V DC / 500 mA Output versions

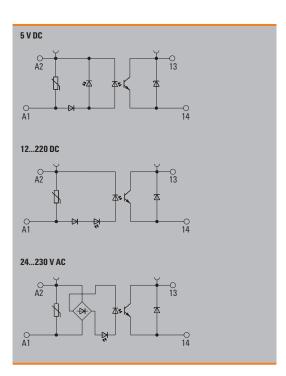
- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: ries page.	refer to the TERMOPTO



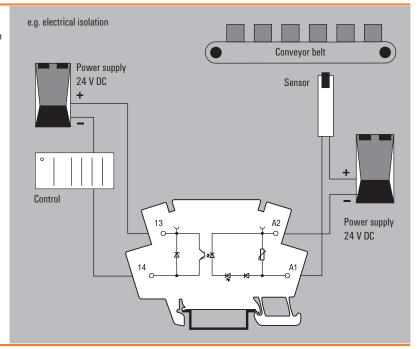
Applications

The **TERMOPTO** opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient.

The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross connection.

The choice between 10 input voltages and 3 output voltages,as well as screw or PUSH IN connection technology,gives 60 variations for different applications.

The integrated protective circuit ensures sufficient protection in applications with resistive, as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriately or an additional safeguard is used.



C.44 Weidmüller № 3043770000

110 V DC

Solid-state relays, 5...48 V DC / 500 mA Output versions

Ordering data

5 V DC

12 V DC

24 V DC

48...60 V DC

Control side Rated control voltage Nominal control current	5 V DC ±20 %	12 V DC ±20 %	041/20 00%	40, 00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	110 V DC ±20 %
-	5 V DC ±20 %	12 V DC +20 %	041/20 000/	4000 \/ D000 \/	110 V DC ±20 %
•			24 V DC ±20 %	4860 V DC ±20 %	1 1 0 V DC ±20 /0
	7.7 mA DC	7.8 mA DC	7 mA DC	4.3 mA DC	2.6 mA DC
ower rating	<40 mW	<95 mW	≤ 170 mW	≤ 200 mW	≤ 280 mW
nax. switching frequency (DC	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
ontrol voltage)					
nax. switching frequency (AC ontrol voltage)					
tatus indicator	Green LED	Green LED	Green LED	Green LED	Green LED
rotective circuit	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection
Ordering data					
Screw connection Type	TOS 5VDC/48VDC 0,5A	TOS 12VDC/48VDC 0,5A	TOS 24VDC/48VDC 0,5A	TOS 48-60VDC/48VDC 0,5A	TOS 110VDC/48VDC 0,5
Order No.	8950900000	8950910000	8950920000	8950930000	8950940000
PUSH IN connection Type	TOP 5VDC/48VDC 0,5A	TOP 12VDC/48VDC 0,5A	TOP 24VDC/48VDC 0,5A	TOP 48-60VDC/48VDC 0,5A	TOP 110VDC/48VDC 0,5
Order No.	8950960000	8950970000	8950980000	8950990000	8951000000
Older No.	033030000	0330370000	033030000	0330330000	0331000000
lote					
Note					
	220 V DC	24 V AC	4860 V AC	120 V AC	230 V AC
rdering data	220 V DC	24 V AC	4860 V AC	120 V AC	230 V AC
rdering data Control side					
rdering data ontrol side ated control voltage	220 V DC +10 % / -15 %	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % /-20 %
rdering data control side lated control voltage lominal control current					230 V AC 230 V AC +10 % / -20 % 1.75 mA AC ≤ 0.4 VA
rdering data	220 V DC +10 % / -15 % 1.65 mA DC	24 V AC ±20% 7.4 mA AC	4860 V AC ±20 % 4.3 mA AC	120 V AC ±20 % 2.9 mA AC	230 V AC +10 % / -20 %
rdering data control side lated control voltage lominal control current ower rating nax. switching frequency (DC	220 V DC +10 % / -15 % 1.65 mA DC ≤ 360 mW	24 V AC ±20% 7.4 mA AC <0.18 VA	4860 V AC ±20 % 4.3 mA AC ≤ 0.2 VA	120 V AC ±20 % 2.9 mA AC ≤ 0.3 VA	230 V AC +10 % / -20 % 1.75 mA AC ≤ 0.4 VA
rdering data ontrol side action on the late of the late of the late on the late of the lat	220 V DC +10 % / -15 % 1.65 mA DC ≤ 360 mW	24 V AC ±20% 7.4 mA AC	4860 V AC ±20 % 4.3 mA AC	120 V AC ±20 % 2.9 mA AC	230 V AC +10 % / -20 %
rdering data control side anted control voltage lominal control current ower rating	220 V DC +10 % / -15 % 1.65 mA DC ≤ 360 mW	24 V AC ±20% 7.4 mA AC <0.18 VA	4860 V AC ±20 % 4.3 mA AC ≤ 0.2 VA	120 V AC ±20 % 2.9 mA AC ≤ 0.3 VA	230 V AC +10 % / -20 % 1.75 mA AC ≤ 0.4 VA

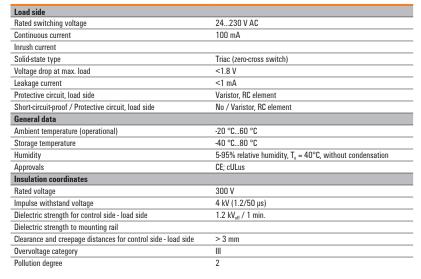
3043770000 **Weidmüller № C.45**

Solid-state relays 24...230 V AC / 100 mA Output versions

- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN
Clamping range (nominal / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: refe ries page.	er to the TERMOPTO

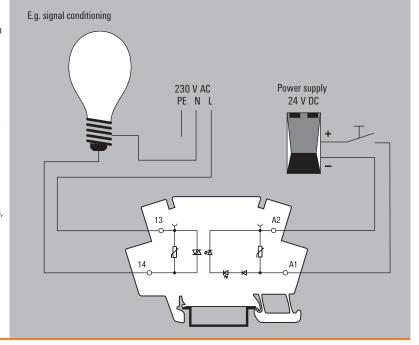
Applications

The **TERMOPTO** opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient.

The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross connection.

The choice between 10 input voltages and 3 output voltages as well as between screw or PUSH IN connection technology gives 60 variations for different applications.

The integrated protective circuit ensures sufficient protection in applications with resistive as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriately or an additional safeguard is used.



2.46 Weidmüller ₹ 3043770000

Application range

Solid-state relays 24...230 V AC / 100 mA Output versions

5 V DC ±20 % 7.8 mA DC <40 mW				
7.8 mA DC				
	12 V DC ±20 %	24 V DC ±20 %	4860 V DC ±20 %	110 V DC ±20 %
<40 mW	3.6 mA DC	3.6 mA DC	3.7 mA DC	3.6 mA DC
	<45 mW	≤ 80 mW	≤ 170 mW	≤ 360 mW
10 Hz	10 Hz	10 Hz	10 Hz	10 Hz
Green LED	Green LED	Green LED	Green LED	Green LED
ristor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection
			_	_
S EVDC/220VAC 0 1A	TOS 12\/DC/220\/A.C.0.1A	TOS 24\/DC/220\/A.C.O.1A	TOS 49 60VDC/220VAC 0 1A	TOS 110VDC/230VAC 0,1A
				8951140000
				TOP 110VDC/230VAC 0,1A
				8951200000
220 V DC	24 V AC	48 60 V AC	120 V AC	230 V AC
220 V DC	24 V AC	4860 V AC	120 V AC	230 V AC
0 V DC +10 % / -15 %	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % / -20 %
0 V DC +10 % / -15 % 2.9 mA DC	24 V AC ±20% 8.8 mA AC	4860 V AC ±20 % 6.4 mA AC	120 V AC ±20 % 8.5 mA AC	230 V AC +10 % / -20 % 7.7 mA AC
0 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW	24 V AC ±20% 8.8 mA AC	4860 V AC ±20 % 6.4 mA AC	120 V AC ±20 % 8.5 mA AC	230 V AC +10 % / -20 % 7.7 mA AC
0 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW	24 V AC ±20% 8.8 mA AC ≤ 0.2 VA	4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA	120 V AC ±20 % 8.5 mA AC ≤ 1 VA	230 V AC +10 % /-20 % 7.7 mA AC ≤ 1.7 VA
	istor, Reverse polarity	istor, Reverse polarity protection S 5VDC/230VAC 0,1A 895110000 P 5VDC/230VAC 0,1A TOS 12VDC/230VAC 0,1A 70P 12VDC/230VAC 0,1A	Varistor, Reverse polarity protection	istor, Reverse polarity protection Varistor, Reverse polarity protection

Weidmüller 🐔 0.47

C

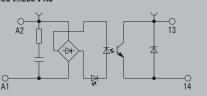
Solid-state relays, 5...48 V DC / 500 mA Output versions with RC element

- Space-saving 6.1 mm width
- Plug-in cross-connections
- Screw and PUSH IN wire connection
- Enclosed design
- RC input circuitry for improved interference immunity





120 V...230 V AC



Technical data

Tooliillour dutu	
Load side	
Rated switching voltage	548 V DC
Continuous current	0.5 A
Inrush current	
Solid-state type	Transistor
Voltage drop at max. load	<1 V
Leakage current	<10 μA
Protective circuit, load side	Diode circuit
Short-circuit-proof / Protective circuit, load side	No / Diode circuit
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C80 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	> 3 mm
Overvoltage category	III
Pollution degree	2

Dimensions		Screw connection	PUSH IN connection		
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5		
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4		
Note		Accessories and dimensioned drawings: refer to the TERMOPTO Accessories page.			

Ordering data

Control side
Rated control voltage
Nominal control current
Power rating

max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit

120 V AC	
120 V AC ±20 %	
6.4 mA AC	
≤ 0.61 VA	
10 Hz	
Green LED	
	-

RC element

230 V AC					
230 V AC +10 %/ -15 %					
6.4 mA AC					
≤ 1.5 VA					
10 Hz					
Green LED					
RC element					

Ordering data Screw connection Type

PUSH IN connection Type Order No.

Note

TOS 120VAC/48VDC 0.5A RC					
1180290000					
TOP 120VAC/48VDC 0.5A RC					
1188830000					

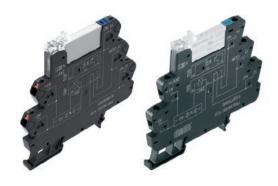
TOS 230VAC/48VDC 0.5A RC
1189270000
TOP 230VAC/48VDC 0.5A RC
1189260000

C.48 Weidmüller ₹ 3043770000

3043770000 **Weidmüller 3€ C.49**

1 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 6.4 mm modular width AgNi contact with gold plating
- PUSH IN and screw connection



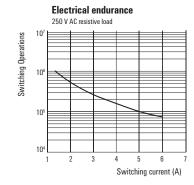
DC-Input AC/DC-Input \forall NC NO AC Input + RC Filter \forall 12 NC

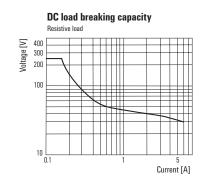
Technical data

Load side			
Rated switching voltage / Continuous current	250 V AC / 6 A		
Max. switching voltage, AC	250 V		
Inrush current	20 A / 20 ms		
Min. switching power	1 mA @ 1 V		
Contact type	1 CO contact (AgNi gold-plated)		
Mechanical service life	5 x 10 ⁶ switching cycles		
Max. switching frequency at rated load	0.1 Hz		
General data			
Ambient temperature (operational)	-40 °C60 °C		
Storage temperature	-40 °C85 °C		
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation		
Approvals	CE; cULus; DETNORVER; UKCA		
Insulation coordinates			
Rated voltage	300 V		
Impulse withstand voltage	6 kV (1.2/50 μs)		
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.		
Dielectric strength of neighbouring contacts			
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.		
Clearance and creepage distances for control side - load side	≥ 6 mm		
Overvoltage category	III		
Pollution degree	2		

Dimensions		PUSH IN	Screw connection			
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5			
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6			
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at ashon weidmueller com				

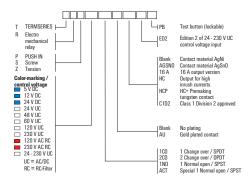
Applications





Weidmüller 🐔 3043770000

1 CO contact with hard gold-plated contacts AC/DC/UC coil



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
D	170W	210W	200W	270 \/ \/ 154 \/ \/	240 W / O 4 VA
Power rating	170 mW	210 mW	280 mW	270 mVA / 154 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO AU	TRP 12VDC 1CO AU	TRP 24VDC 1CO AU	TRP 24VUC 1CO AU	TRP 48VUC 1CO AU
Order No.	2618060000	2618120000	2618110000	2618160000	2618170000
Screw connection Type	TRS 5VDC 1CO AU	TRS 12VDC 1CO AU	TRS 24VDC 1CO AU	TRS 24VUC 1CO AU	TRS 48VUC 1CO AU
Order No.	1122980000	1122990000	1123000000	1123010000	1123020000
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
ontrol side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
ordering data Control side lated control voltage					
control side lated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
ontrol side ated control voltage ated current AC / DC	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 % 8.5 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO AU	TRP 120VUC 1CO AU	TRP 230VUC 1CO AU	TRP 120VAC RC 1CO AU	TRP 230VAC RC 1CO AU
Order No.	2618070000	2618080000	2618210000	2618030000	2617950000
Screw connection Type	TRS 60VUC 1CO AU	TRS 120VUC 1CO AU	TRS 230VUC 1CO AU	TRS 120VAC RC 1CO AU	TRS 230VAC RC 1CO AU
Order No.	1123030000	1123040000	1123050000	1123070000	1123080000
Note					

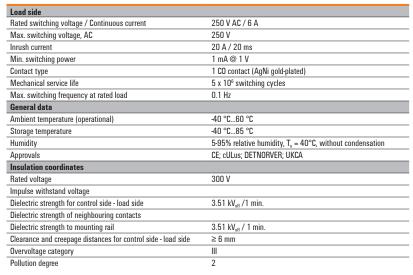
3043770000 **Weidmüller ₹ C.51**

1 CO contact with hard gold-plated contacts multi-voltage input

- Space saving, just 6.4 mm modular width
- AgNi contact with gold plating
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



Technical data



Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ries and dimensional drawings: refer to pprovals and technical data can be fo	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com

AC/DC Input AC/DC

Ordering data	24 V - 230 V UC
Control side	
Rated control voltage	24230 V UC ± 10 %
Rated current AC / DC	19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC / 11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC
Power rating	265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC
Status indicator	Green LED
Protective circuit	Rectifier
Approvals	CE; cULus; DETNORVER; UKCA

Ordering data	
PUSH IN connection	Type
	Order No.
Screw connection	Type
	Order No.
Note	

TRP 24-230VUC 1CO AU ED2
2663020000
TRS 24-230VUC 1CO AU ED2
2662860000

2.52 Weidmüller ₹ 3043770000

2 CO contact with hard gold-plated contacts multi-voltage input

- Space saving, just 12.8 mm modular width
- AgNi contact
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module



AC/DC Input 240 140 NO

Technical data

Load side	250 11 20 10 20
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 1 V
Contact type	2 CO contact (AgNi gold-plated)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection	
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5	
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6	
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories paraurates approvals and technical data can be found at eshop weidmueller.com		

Ordering data

Control side

Rated control voltage

24...230 V UC ± 10 %

24 V - 230 V UC

Rated current AC / DC

23.5 mA @ 24 V AC, 4.5 mA @ 230 V AC / 22.5 mA @ 24 V DC, 2.0 mA @ 230 V DC

Power rating

540 mW @ 24 V DC, 460 mW @ 230 V DC, 565 mVA @ 24 V AC, 1.0 VA @ 230 V AC

Status indicator

Rectifier

Protective circuit

Green LED

Approvals

CE; cULus; DETNORVER; UKCA

Ordering data

PUSH IN connection Type Order No.

Screw connection Type Order No.

Note

TRP 24-230VUC 2CO AU ED2 TRS 24-230VUC 2CO AU ED2 2662890000

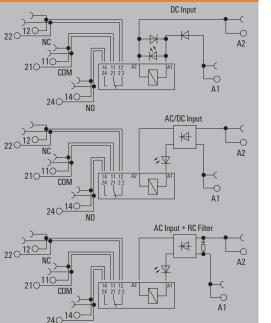
Weidmüller ₹ C.53 3043770000

2 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 12.8 mm modular width AgNi contact with gold plating
- PUSH IN and screw connection



Technical data



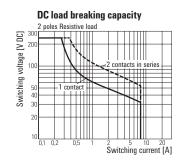
Toolillour uutu	
Load side	
Rated switching voltage / Continuous current	250 V AC / 8 A
Max. switching voltage, AC	250 V
Inrush current	15 A / 4 s
Min. switching power	1 mA @ 1 V
Contact type	2 CO contact (AgNi gold-plated)
Mechanical service life	30 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection	
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5	
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6	
Note		Accessories and dimensional drawings: refer to the TERMSERIES Accessories page Further approvals and technical data can be found at eshop, weidmueller.com		

Applications

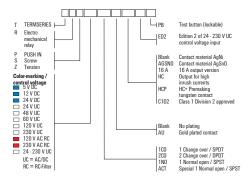
Electrical endurance Switching Operations

Switching current [A]



Weidmüller 🐔 3043770000

2 CO contact with hard gold-plated contacts AC/DC/UC coil



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 70 mA	/ 33 mA	/ 20.5 mA	16 mA / 14 mA	9 mA / 7 mA
Power rating	400 mW	400 mW	495 mW	390 mVA / 350 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

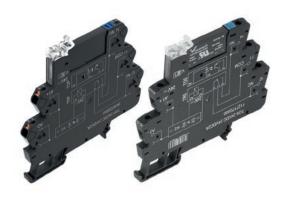
Ordering data					
PUSH IN connection Type	TRP 5VDC 2CO AU	TRP 12VDC 2CO AU	TRP 24VDC 2CO AU	TRP 24VUC 2CO AU	TRP 48VUC 2CO AU
Order No.	2618580000	2618310000	2618530000	2618540000	2618560000
Screw connection Type	TRS 5VDC 2CO AU	TRS 12VDC 2CO AU	TRS 24VDC 2CO AU	TRS 24VUC 2CO AU	TRS 48VUC 2CO AU
Order No.	1123710000	1123720000	1123730000	1123740000	1123750000
	60 V IIC	120 V IIC	230 V IIC	120 V AC BC	230 V AC BC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side					
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC RC	230 V AC RC 230 V AC ± 5 %
Irdering data Control side Rated control voltage Rated current AC / DC					
Control side Rated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %
Control side Nated control voltage Nated current AC / DC	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 % 3.5 mA / 3.5 mA	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 % 8.8 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 2CO AU	TRP 120VUC 2CO AU	TRP 230VUC 2CO AU	TRP 120VAC RC 2CO AU	TRP 230VAC RC 2CO AU
Order No.	2618360000	2618590000	2618300000	2618490000	2618500000
Screw connection Type	TRS 60VUC 2CO AU	TRS 120VUC 2CO AU	TRS 230VUC 2CO AU	TRS 120VAC RC 2CO AU	TRS 230VAC RC 2CO AU
Order No.	1123770000	1123780000	1123790000	1123800000	1123810000
Note					

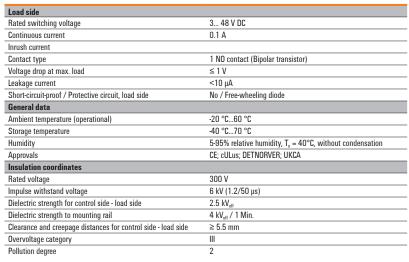
3043770000 **Weidmüller № C.55**

Solid-state relay, 3...48 V DC / 100 mA Output versions

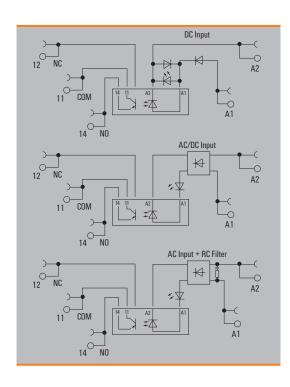
- Space saving, just 6.4 mm modular width
- 100 mA DC Output current
- PUSH IN and screw connection



Technical data

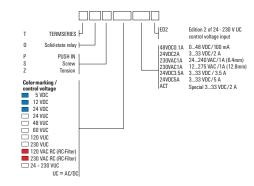


Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories pag Further approvals and technical data can be found at eshop.weidmueller.com		



56 Weidmüller № 3043770000

Solid-state relay, 3...48 V DC / 100 mA Output versions



Ordering data
Control side
Rated control voltage
Nominal control current
Power rating
max. switching frequency (DC control voltage)
max. switching frequency (AC control voltage)
Status indicator
Protective circuit

5 V DC
5 V DC ±20 %
7 mA DC (±20 %)
35 mW
10 Hz
Green LED
Free-wheeling diode, Reverse polarity protection

12 V DC	
12 V DC ±20 %	
5 mA DC (±20 %)	
112 mW	
10 Hz	
Green LED	
Rectifier	

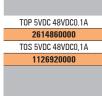
24 V DC
24 V DC ±20 %
10 mA DC $\pm 20~\%$
280 mW
300 Hz
Green LED
Free-wheeling diode, Reverse

polarity protection

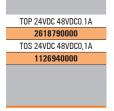
24 V UC	48 V UC
24 V UC ±10 %	48 V UC ±10 %
10 mA AC ±20 %, 6 mA DC (±20 %)	8 mA AC (±20 %), 7 mA DC (±20 %)
154 mW	290 mVA / 192 mW
100 Hz	100 Hz
3 Hz	3 Hz
Green LED	Green LED
Rectifier	Rectifier

Туре
Order No.
Type
Order No.

Ordering data







TOP 24VUC 48VDC0.1A
2618640000
TOS 24VUC 48VDC0,1A
1126950000

TOP 48VUC 48VDC0.1A
2618710000
TOS 48VUC 48VDCO,1A
1126960000

Ordering data
Control side
Rated control voltage
Nominal control current
Power rating
max. switching frequency (DC
control voltage)
max. switching frequency (AC
control voltage)
Status indicator
Protective circuit

60 V UC
60 V UC ±10 %
4.8 mA AC (±10 %), 2.5 mA DC (±10 %)
150 mW, 290 mVA
10 Hz
3 Hz
Green LED
Rectifier

120 V UC ±10 %
5 mA AC (±30 %), 3 mA DC (±30 %)
0.48 VA
3 Hz
3 Hz
Green LED
Rectifier

120 V UC

230 V UC
230 V UC ±10%
3.5 mA AC (±5 %), 2.9 mA DC (±5 %)
670 mW, 805 mVA
3 Hz
3 Hz
Green LED
Rectifier

120 V AC RC
120 V AC ±10 %
7 mA AC (±20 %)
0.84 VA
3 Hz
Green LED
Rectifier, RC element

230 V AC RC	
230 V AC ±10 %	
9 mA AC	
1.9 VA	_
3 Hz	
Green LED	_
Rectifier, RC element	_

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	$\hbox{Order No.}$
Note	

TOP 60VUC 48VDC0.1A
2614880000
TOS 60VUC 48VDCO,1A
1126970000

TOP 120VUC 48VDC0.1A
2618680000
TOS 120VUC 48VDCO,1A
1126980000

TOP 230VUC 48VDC0.1A
2618690000
TOS 230VUC 48VDC0,1A
1126990000

TOP	120VAC	RC 48VD0	0.1A
	26186	550000	
TOS	120VAC	RC 48VD0	CO,1A
	11270	000000	

TOP 230VAC RC 48VDC0.1A
2618620000
TOS 230VAC RC 48VDC0,1A
1127010000

Solid-state relay, 3...48 V DC / 100 mA Output versions, multi-voltage input

- Space saving, just 6.4 mm modular width
- 100 mA DC Output current
- PUSH IN and screw connection
- Multi-voltage input: 24...230 V UC in one module





Technical data

Load side	
Rated switching voltage	3 48 V DC
Continuous current	0.1 A
Inrush current	
Contact type	1 NO contact (Bipolar transistor)
Voltage drop at max. load	≤ 1 V
Leakage current	<10 μΑ
Short-circuit-proof / Protective circuit, load side	No / Free-wheeling diode
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C70 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	3.51 kV _{eff} /1 min.
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

AC/DC Input 12 NC 11 COM 14 NO A2 A1

Ordering data

Control side

Rated control voltage Nominal control current 24...230 V UC ±10 % 11.0 mA at 24 V DC, 1.1 mA at 230 V DC, 19.0 mA at 24 V AC, 2.8 mA at 230 V AC

24 V - 230 V UC

Power rating

265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 645 mVA @ 230 V AC

3 Hz

max. switching frequency (DC control voltage)

max. switching frequency (AC control voltage)

Status indicator Protective circuit

Approvals

3 Hz
Green LED
Rectifier
CE, alli un DETMODVED, LIVCA

CE; cULus; DETNORVER; UKCA

PUSH IN connection Type
Order No.
Screw connection Type
Order No.

Note

TOP 24-230VUC 48VDC0,1A ED2
2663070000
TOS 24-230VUC 48VDC0,1A ED2
2662910000

C.58 Weidmüller ₹ 3043770000

High switching frequencies

Special solid-state relays for reliable and fast decoupling of signals up to 550 kHz

Due to their design, solid-state relays can already switch significantly faster than electromechanical relays. However, there are applications in which signals have to be switched even faster or at an even higher frequency. For particularly fast switching processes, or the transmission of signals with high switching frequencies between 1 and 550 kHz, we have developed special solid-state relays that are precisely tailored to these specific applications.

Our solid-state relays for high switching frequencies guarantee the reliable and fast decoupling of signals. They can be used to implement extremely fast switching processes or to transmit signals with switching frequencies of up to 550 kHz.

3043770000 **Weidmüller ₹**



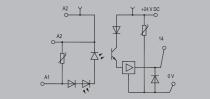
Visit our website for more information www.weidmueller.com/hf

For high switching frequency up to 100 kHz

- Width only 6 mm
- Plug-in cross-connector
- . For mounting on TS 35

12...28 V DC 100 kHz





Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max, current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals Insulation coo

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

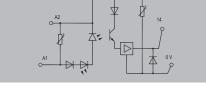
Ordering data

Screw connection

Note			

Accessories

Note



12 V DC28 V DC
≤ 360 mW
5.6 V / 5 V DC

100 kHz Green LED

Varistor, Reverse polarity protection

Transistor

19.6...28.8 V DC

50 mA ≤ 2 V

<1 IIA

No / Varistor, Reverse polarity protection

<200 ns / <400 ns

0.6 A (20 ms) IC A

-25 °C...60 °C

-40 °C...80 °C V-0

 $\overline{5.95\%}$ relative humidity, $T_u = 55^{\circ}C$, without condensation

CE; cULus; DETNORVER; UKCA

30 V

500 V (1,2/50 μ)

350 V_{eff} / 1 min.

 $350 V_{\text{eff}} / 1 \text{ min.}$

Screw connection
2.5 / 0.5 / 4
97.8 / 6.1 / 88.1

Туре	Qty.	Order No.
MOS 12-28VDC 100KHZ	1	8937990000

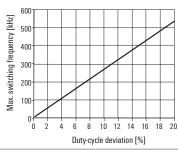
Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

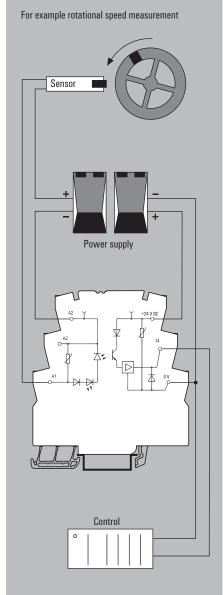
A special interior circuit in the opto module

MICROOPTO 100 kHz ensures that rapidly transmitted signals are isolated from one another and that they can be transferred practically without delay. This allows switching frequencies up to 100 kHz to be achieved. $\label{lem:comprehensive} \textbf{Comprehensive suppressor circuits safeguard the module}$ against conducted transients and voltage spikes.

Max. switching frequency is dependent on the duty cycle deviation

MOS 12-28 V DC 100 kHz (switching current 50 mA, ohmic load)



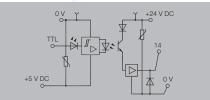


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For adjusting TTL signals

5 V TTL / 24 V DC 0.1 A





To adjust sensitive TTL signals to the typical voltage level of 24 V DC used in industrial automation applications, the MICROOPTO TTL modules are used.

For the protection of the electronics, the sensitive TTL signals require electrical isolation from the 24 V world.

To control the optical coupler circuit via the 5 V TTL signal, an additional auxiliary voltage is fed in.

Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals

Insulation coordi

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

-					k		
II)	Пі	n	e	s			

Clamping range (nominal / min. / max.)

Depth x width x height

Note

mm

mm²

Ordering data

Screw connection

Note

Accessories

Note

5 V TTL <0.5 mW 2 V / 1 V DC 100 kHz Green LED Varistor, Reverse polarity protection Bipolar transistor 24 VDC ±20% 100 mA <1 V <20 IIA No / Free-wheeling diode <1.3 µ / <1 µs LC A -25 °C...60 °C -40 °C...60 °C V-0 5 - 93% rel. humidity, Tu = 40°C, no condensation CE; cULus; DETNORVER; UKCA 300 V 4 kV (1.2/50 μs)

Screw connection
2.5 / 0.5 / 4
97.8 / 6.1 / 88.1

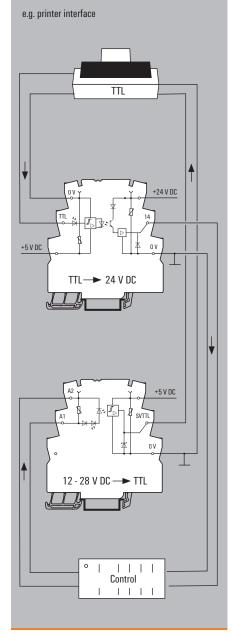
3 KV_{eff} / 1 Min.

 $4 \text{ kV}_{\text{eff}} / 1 \text{ Min}.$

> 3 mm

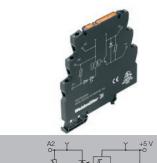
Туре	Qty.	Order No.
MOS 5VTTL/24VDC 0,1A	1	8937920000

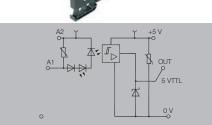
Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



For adjusting TTL signals

12-28 V DC / 5 V TTL





To adjust sensitive TTL signals to the typical voltage level of 24 V DC used in industrial automation applications, the MICROOPTO TTL modules are used.

For the protection of the electronics, the sensitive TTL signals require electrical isolation from the 24 V world.

To control the optical coupler circuit via the 5 V TTL signal, an additional auxiliary voltage is fed in.

Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current

Voltage drop at max. load Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals

Insulation coordinates

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

D	imens	ions	

Clamping range (nominal / min. / max.) Depth x width x height

Note

Ordering data

Screw connection

mm²

mm

Note

Accessories

Note

12 V DC28 V DC
150 mW
10.7 V / 10.6 V DC
100 kHz
Green LED
Varistor, Reverse polarity protection
TTL
5 V TTL
50 mA
≤ 1.1 V
<1 μΑ
No / Varistor

typ. <1 μs / typical. <4 μs

LC A

-25 °C...60 °C

-40 °C...60 °C

V-0

5 - 93% rel. humidity, Tu = 40°C, no condensation

CE; cULus; DETNORVER; UKCA

300 V

4 kV (1.2/50 μs)

3 KV_{eff} / 1 Min.

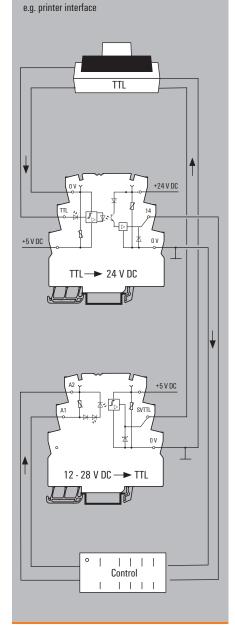
 $4 \text{ kV}_{\text{eff}} / 1 \text{ Min}.$

> 3 mm

Screw connection	
2.5 / 0.5 / 4	
97.8 / 6.1 / 88.1	

Туре	Qty.	Order No.
MOS 12-28VDC/5VTTL	1	8937930000

Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



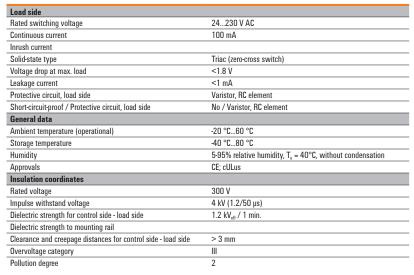
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Solid-state relays 5...48 V DC / 100 mA Output versions

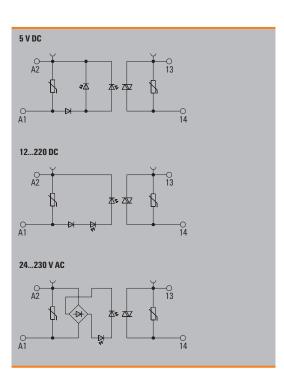
- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note	Accessories and dimensioned drawings: refer to the TERMOPTO Accessories page.		



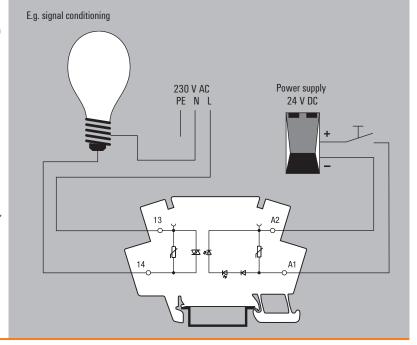
Applications

The **TERMOPTO** opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient.

The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross connection.

The choice between 10 input voltages and 3 output voltages as well as between screw or PUSH IN connection technology gives 60 variations for different applications.

The integrated protective circuit ensures sufficient protection in applications with resistive as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriately or an additional safeguard is used.



66 Weidmüller ₹ 3043770000

Solid-state relays 5...48 V DC / 100 mA Output versions

Ordering data	5 V DC	12 V DC	24 V DC
Control side			
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %
Nominal control current	7.8 mA DC	3.6 mA DC	3.6 mA DC
Power rating	<40 mW	<45 mW	≤ 80 mW
max. switching frequency (DC control voltage)	10 Hz	10 Hz	10 Hz
max. switching frequency (AC control voltage)			
Status indicator	Green LED	Green LED	Green LED
Protective circuit	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection

Ordering data				
Screw connection	Туре	TOS 5VDC/230VAC 0,1A	TOS 12VDC/230VAC 0,1A	TOS 24VDC/230VAC 0,1/
	Order No.	8951100000	8951110000	8951120000
PUSH IN connection	Type	TOP 5VDC/230VAC 0,1A	TOP 12VDC/230VAC 0,1A	TOP 24VDC/230VAC 0,1A
	Order No.	8951160000	8951170000	8951180000
Note				

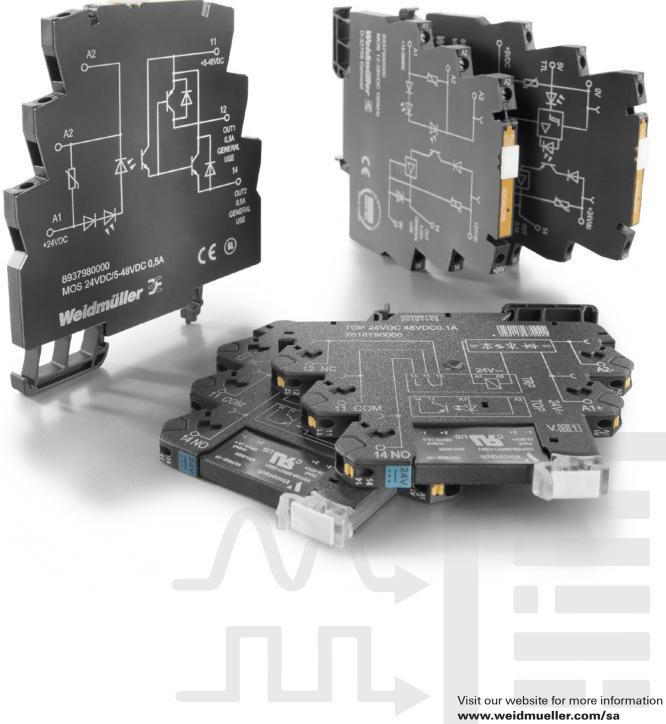
Signal adaption

Custom-fit relays for signal adaption and transmission

To adapt signals and transmit them from other systems at the panel level, relays and solid-state relays are required that are precisely tailored to the application. We offer you a range of high-quality and particularly space-saving relay products for these special applications.

In our portfolio you will find, for example, special variants for transmitting 5 V TTL signals to the inputs and outputs of PLC systems or industrial computers. What's more, we offer variants which, in contrast to conventional 1 NO contact solid-state relays, have a 1 CO contact output. These products are particularly suitable for inverting signals.

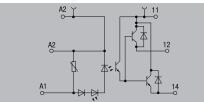
3043770000 3043770000 3043770000



For electronically switching or inverting signals

24 V DC / 5-48 V DC 0.5 A





Electronic CO contacts are used anywhere output signals need to be changed over.

For this purpose, the input signal is directly switched through to the output side and inverted; as a result, the opto module can also be used as a pure inverter.

The advantage over electromechanical relays lies in the wear-free switching and the possibility of realising high switching frequencies.

Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max, current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals

Insulation coo

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

Dimensions
Clamping range (nominal / min. / max.)

Depth x width x height

Note

Ordering data

Screw connection

mm²

mm

Screw connection 2.5 / 0.5 / 4

24 V DC ±20 %

160 mW 19.5 V / 12 V DC

1 kHz

Green LED

Transistor

500 mA

Max. 1 V

<1.5 mA

IC A

V-0

300 V

4 kV (1.2/50 μs)

3 KV_{eff} / 1 Min.

 $4 \text{ kV}_{\text{eff}} / 1 \text{ Min}.$

> 3 mm

No / Free-wheeling diode

<30 μs / <50 μs

-25 °C...60 °C

-40 °C...60 °C

CE; cULus; DETNORVER; UKCA

5 - 93% rel. humidity, Tu = 40°C, no condensation

5...48 V DC

Varistor, Reverse polarity protection

97.8 / 6.1 / 88.1

MOS 24VDC/5-48VDC 0,5A 8937980000

Order No.

Accessories

Note

Note

Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

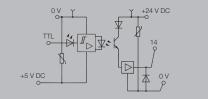
e.g. Inverter Power supply 24 V DC Control O on off

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For adjusting TTL signals

5 V TTL / 24 V DC 0.1 A





To adjust sensitive TTL signals to the typical voltage level of 24 V DC used in industrial automation applications, the MICROOPTO TTL modules are used.

For the protection of the electronics, the sensitive TTL signals require electrical isolation from the 24 V world.

To control the optical coupler circuit via the 5 V TTL signal, an additional auxiliary voltage is fed in.

Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals

Insulation coordi

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

ь.			
ш	me	ns	ns

Clamping range (nominal / min. / max.)

Depth x width x height

Note

Ordering data

Screw connection

mm²

mm

Note

Accessories

Note

5 V TTL <0.5 mW 2 V / 1 V DC 100 kHz Green LED Varistor, Reverse polarity protection Bipolar transistor 24 VDC ±20% 100 mA <1 V <20 IIA No / Free-wheeling diode <1.3 µ / <1 µs

-25 °C...60 °C -40 °C...60 °C

IC A

V-0 5 - 93% rel. humidity, Tu = 40°C, no condensation

CE; cULus; DETNORVER; UKCA

300 V 4 kV (1.2/50 μs)

3 KV_{eff} / 1 Min.

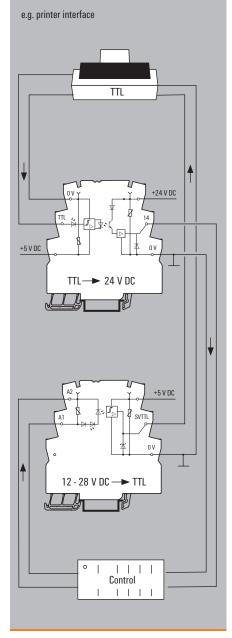
 $4 \text{ kV}_{\text{eff}} / 1 \text{ Min}.$

> 3 mm

Screw connection 2.5 / 0.5 / 4 97.8 / 6.1 / 88.1

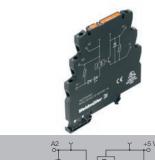
Order No. MOS 5VTTL/24VDC 0,1A 8937920000

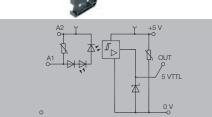
Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



For adjusting TTL signals

12-28 V DC / 5 V TTL





To adjust sensitive TTL signals to the typical voltage level of 24 V DC used in industrial automation applications, the MICROOPTO TTL modules are used.

For the protection of the electronics, the sensitive TTL signals require electrical isolation from the 24 V world.

To control the optical coupler circuit via the 5 V TTL signal, an additional auxiliary voltage is fed in.

Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage Continuous current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Pulse load, max. current

Load category

General data

Ambient temperature (operational)

Storage temperature

UL 94 flammability rating

Humidity

Approvals Insulation coordi

Rated voltage

Impulse withstand voltage

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Overvoltage category Pollution degree

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm

Ordering data

Screw connection

Note

Accessories

Note

12 V DC28 V DC
150 mW
10.7 V / 10.6 V DC
100 kHz
Green LED
Varistor, Reverse polarity protection
TTL
5 V TTL
50 mA

typ. <1 μs / typical. <4 μs LC A

-25 °C...60 °C -40 °C...60 °C V-0 5 - 93% rel. humidity, Tu = 40°C, no condensation

CE; cULus; DETNORVER; UKCA

≤ 1.1 V

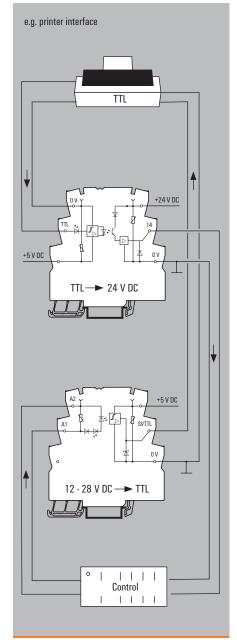
<1 IIA

No / Varistor

300 V 4 kV (1.2/50 μs) 3 KV_{eff} / 1 Min. $4 \text{ kV}_{\text{eff}} / 1 \text{ Min}.$ > 3 mm

Туре	Qty.	Order No.
MOS 12-28VDC/5VTTL	1	8937930000

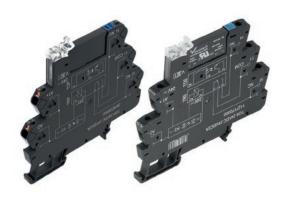
Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.



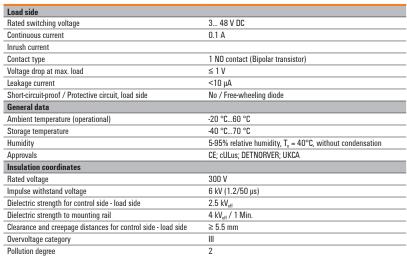
Weidmüller 🏖 3043770000

Solid-state relay, 3...48 V DC / 100 mA Output versions

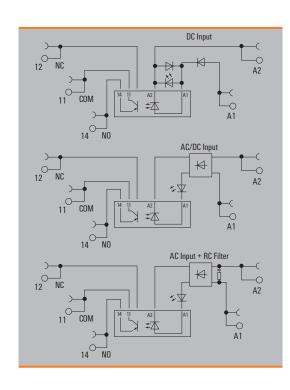
- Space saving, just 6.4 mm modular width
- 100 mA DC Output current
- PUSH IN and screw connection



Technical data

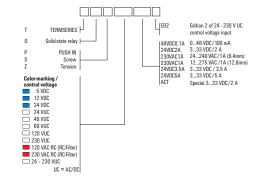


Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		



2.74 Weidmüller ₹ 3043770000

Solid-state relay, 3...48 V DC / 100 mA Output versions



Ordering data
Control side
Rated control voltage
Nominal control current
Power rating
max. switching frequency (DC control voltage)
max. switching frequency (AC control voltage)
Status indicator
Protective circuit

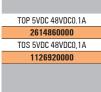
5 V DC
5 V DC ±20 %
7 mA DC (±20 %)
35 mW
10 Hz
Green LED
Free-wheeling diode, Reverse polarity protection

12 V DC	
12 V DC ±20 %	
5 mA DC (±20 %)	
112 mW	
10 Hz	
Green LED	
Rectifier	

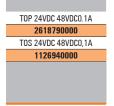
24 V DC	24 V UC
24 V DC ±20 %	24 V UC ±10 %
10 mA DC ±20 %	10 mA AC ±20 % 6 mA DC (±20 %
280 mW	154 mW
300 Hz	100 Hz
	3 Hz
Green LED	Green LED
Free-wheeling diode, Reverse	Rectifier

24 V UC	48 V UC
24 V UC ±10 %	48 V UC ±10 %
10 mA AC ±20 %, 6 mA DC (±20 %)	8 mA AC (±20 %), 7 mA DC (±20 %)
154 mW	290 mVA / 192 mW
100 Hz	100 Hz
3 Hz	3 Hz
Green LED	Green LED
Rectifier	Rectifier

Ordering data	
PUSH IN connection	Type
	Order No.
Screw connection	Type
	$\hbox{Order No.}$
Note	







TOP 24VUC 48VDC0.1A
2618640000
TOS 24VUC 48VDC0,1A
1126950000

TOP 48VUC 48VDC0.1A
2618710000
TOS 48VUC 48VDCO,1A
1126960000

Ordering data
Control side
Rated control voltage
Nominal control current
Power rating
max. switching frequency (DC control voltage)
max. switching frequency (AC
control voltage)
Status indicator
Protective circuit

60 V UC
60 V UC ±10 %
4.8 mA AC (±10 %), 2.5 mA DC (±10 %)
150 mW, 290 mVA
10 Hz
3 Hz
Green LED
Rectifier

120 V UC ±10 %
5 mA AC (±30 %), 3 mA DC (±30 %)
0.48 VA
3 Hz
3 Hz
Green LED
Rectifier

120 V UC

230 V UC
230 V UC ±10%
3.5 mA AC (±5 %), 2.9 mA DC (±5 %)
670 mW, 805 mVA
3 Hz
3 Hz
Green LED
Rectifier

120 V AC RC
120 V AC ±10 %
7 mA AC (±20 %)
0.84 VA
3 Hz
Green LED
Rectifier, RC element

	230 V AC RC	
	230 V AC ±10 %	
	9 mA AC	
	1.9 VA	
	3 Hz	
Т	Green LED	
	Rectifier, RC element	

Ordering data	
PUSH IN connection	Туре
	Order No.
Screw connection	Type
	Order No.
Note	

TOP 60VUC 48VDC0.1A
2614880000
TOS 60VUC 48VDCO,1A
1126970000

TOP 120VUC 48VDC0.1A
2618680000
TOS 120VUC 48VDC0,1A
1126980000

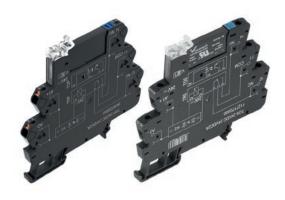
TOP 230VUC 48VDC0.1A
2618690000
TOS 230VUC 48VDC0,1A
1126990000

TUP	120VAC RC 48VDC0.1A 2618650000
TOS	120VAC RC 48VDC0,1A
	1127000000

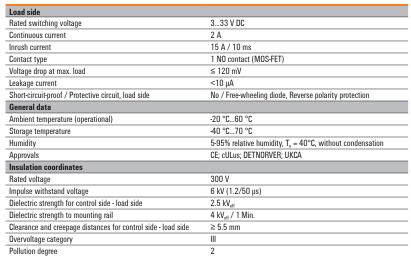
TOP 230VAC RC 48VDC0.1A
2618620000
TOS 230VAC RC 48VDC0,1A
1127010000

Solid-state relay, 3...33 V DC / 2 A Output versions

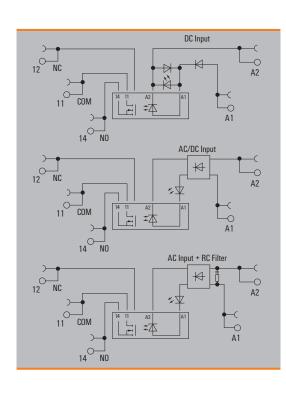
- Space saving, just 6.4 mm modular width
- 2 A DC Output current
- PUSH IN and screw connection



Technical data



Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com



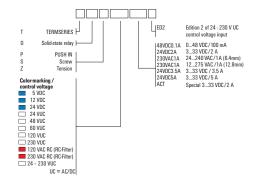
2.76 Weidmüller ₹ 3043770000

Green LED

RC element

C

Solid-state relay, 3...33 V DC / 2 A Output versions



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	48 V UC ±10 %
Nominal control current	11.5 mA DC (±20%)	9.6 mA DC (±20 %)	11.5 mA DC (±10 %)	10 mA AC ±20 %, 6 mA DC (±20 %)	8 mA AC (±20 %), 7 mA DC (±20 %)
Power rating	50 mW	112 mW	280 mW	154 mW	290 mVA / 192 mW
max. switching frequency (DC control voltage)	300 Hz	300 Hz	300 Hz	10 Hz	10 Hz
max. switching frequency (AC control voltage)				3 Hz	3 Hz
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

PUSH IN connection Type	TOP 5VDC 24VDC2A	TOP 12VDC 24VDC2A	TOP 24VDC 24VDC2A	TOP 24VUC 24VDC2A	TOP 48VUC 24VDC2A
Order No.	2618810000	2618820000	2618720000	2618730000	2618760000
Screw connection Type	TOS 5VDC 24VDC2A	TOS 12VDC 24VDC2A	TOS 24VDC 24VDC2A	TOS 24VUC 24VDC2A	TOS 48VUC 24VDC2A
Order No.	1127140000	1127150000	1127170000	1127180000	1127190000
Note					
0.1.1.1.	60 1/110	400 1/110	220 1/110	120 V 40 DO	000 V 40 D0
Ordering data Control side	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side Rated control voltage	60 V UC ±10 %	120 V UC ±10 %	230 V UC ±10%	120 V AC RC	230 V AC HC
Control side					
Control side Rated control voltage	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC	120 V UC ±10 % 4.1 mA AC (±10 %), 2.6 mA	230 V UC ±10% 3.5 mA AC (±5 %), 2.9 mA DC	120 V AC ±10 %	230 V AC ±10 %
Control side Rated control voltage Nominal control current	60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC (±10 %)	120 V UC ±10 % 4.1 mA AC (±10 %), 2.6 mA DC (±10%)	230 V UC ±10% 3.5 mA AC (±5 %), 2.9 mA DC (±5 %)	120 V AC ±10 % 7 mA AC (±20 %)	230 V AC ±10 % 9 mA AC

Green LED

Rectifier

Green LED

RC element

Green LED

Rectifier

Green LED

Rectifier

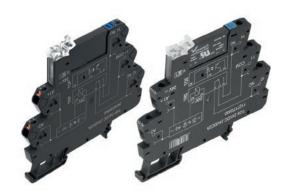
Status indicator Protective circuit

Ordering data					
PUSH IN connection Type Order No.	TOP 60VUC 24VDC2A 2618970000	TOP 120VUC 24VDC2A 2618770000	TOP 230VUC 24VDC2A 2618800000	TOP 120VAC RC 24VDC2A 2618660000	TOP 230VAC RC 24VDC2A 2618670000
Screw connection Type Order No.	TOS 60VUC 24VDC2A 1127200000	TOS 120VUC 24VDC2A 1127210000	TOS 230VUC 24VDC2A 1127220000	TOS 120VAC RC 24VDC2A 1127230000	TOS 230VAC RC 24VDC2A 1127240000
Note					

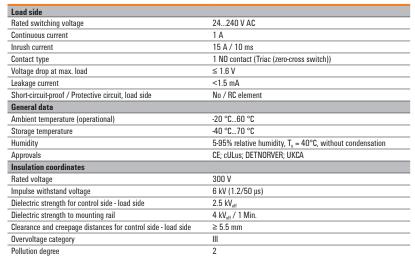
3043770000 **Weidmüller ₹ c.77**

Solid-state relay, 24...230 V AC / 1 A Output versions

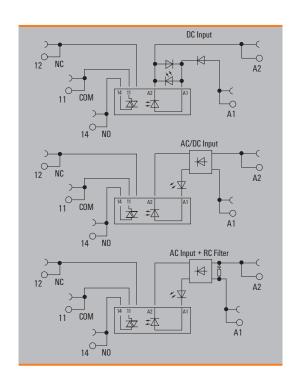
- Space saving, just 6.4 mm modular width
- 1 A AC Output current
- PUSH IN and screw connection



Technical data



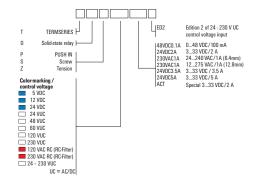
Dimensions		PUSH IN connection	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note		ries and dimensional drawings: refer approvals and technical data can be f	to the TERMSERIES Accessories page. ound at eshop.weidmueller.com



2.78 Weidmüller ₹ 3043770000

Solid-state relay, 24...230 V AC / 1 A Output versions

Ordering data



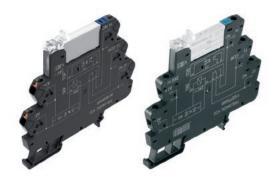
Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	24 V UC ±10 %	48 V UC ±10 %
Nominal control current	15 mA DC (±20 %)	9.6 mA DC (±20 %)	11.5 mA DC (±10 %)	10 mA AC ±20 %, 6 mA DC (±20 %)	6 mA AC (±20 %), 4 mA DC (±20 %)
Power rating	75 mW	112 mW	280 mW	154 mW	290 mVA / 192 mW
max. switching frequency (DC control voltage)	3 Hz	3 Hz	3 Hz	3 Hz	3 Hz
max. switching frequency (AC control voltage)				3 Hz	3 Hz
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

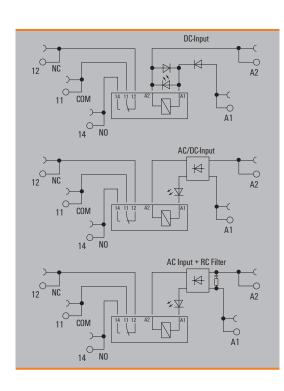
TOP 5VDC 230VAC1A	TOP 12VDC 230VAC1A	TOP 24VDC 230VAC1A	TOP 24VUC 230VAC1A	TOP 48VUC 230VAC1A
2614850000	2618380000	2618420000	2618350000	2618460000
TOS 5VDC 230VAC1A	TOS 12VDC 230VAC1A	TOS 24VDC 230VAC1A	TOS 24VUC 230VAC1A	TOS 48VUC 230VAC1A
1127390000	1127400000	1127410000	1127420000	1127430000
60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
60 V UC ±10 %	120 V UC ±10 %	230 V UC +5 %/ -10 %	120 V AC ±10 %	230 V AC +5 % / -10 %
4.8 mA AC (±10 %), 2.5 mA DC	5 mA AC (±30 %), 3 mA DC	3.5 mA AC (±5 %), 2.9 mA DC	7 mA AC (±20 %)	8.3 mA AC (±5 %)
(±10 %)	(±30 %)	(±5 %)		
<300 mW	0.48 VA	0.8 VA / 660 mW	0.84 VA	2.1 VA
3 Hz	3 Hz	3 Hz		
3 Hz	3 Hz	3 Hz	3 Hz	3 Hz
Green LED	Green LED	Green LED	Green LED	Green LED
Rectifier	Rectifier	Rectifier	RC element	RC element
	2614850000 TOS 5VDC 230VAC1A 1127390000 60 V UC 60 V UC ±10 % 4.8 mA AC (±10 %), 2.5 mA DC (±10 %) <300 mW 3 Hz 3 Hz Green LED	2614850000 2618380000 TOS 5VDC 230VAC1A TOS 12VDC 230VAC1A 1127400000 1127400000 120 V UC	2614850000 2618380000 2618420000 TOS 5VDC 230VAC1A TOS 12VDC 230VAC1A TOS 24VDC 230VAC1A 1127400000 1127410000 1127410000 60 V UC 120 V UC 230 V UC 4.8 mA AC (±10 %), 2.5 mA DC (±10 %) 5 mA AC (±30 %), 3 mA DC (±5 %), 2.9 mA DC (±5 %) <300 mW	2614850000 2618380000 2618350000 2618350000 TOS 24VDC 230VAC1A 1127420000<

Ordering data					
PUSH IN connection Type	TOP 60VUC 230VAC1A	TOP 120VUC 230VAC1A	TOP 230VUC 230VAC1A	TOP 120VAC RC 230VAC1A	TOP 230VAC RC 230VAC1A
Order No.	2618370000	2618480000	2618450000	2618390000	2618430000
Screw connection Type	TOS 60VUC 230VAC1A	TOS 120VUC 230VAC1A	TOS 230VUC 230VAC1A	TOS 120VAC RC 230VAC1A	TOS 230VAC RC 230VAC1A
Order No.	1127440000	1127450000	1127470000	1127480000	1127490000
Note					

1 CO contact AC/DC/UC coil

- Space-saving, only 6.4 mm wide
- AgNi contact
- PUSH IN and screw connection



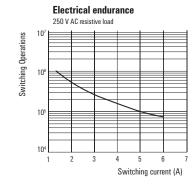


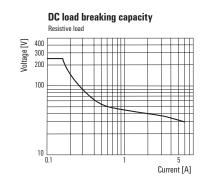
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Contact type	1 CO contact (AgNi)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page.

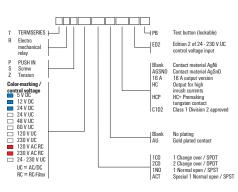
Applications





C.80 Weidmüller ₹ 3043770000

1 CO contact AC/DC/UC coil



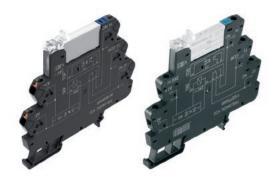
Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
Power rating	170 mW	210 mW	280 mW	270 mVA / 154 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

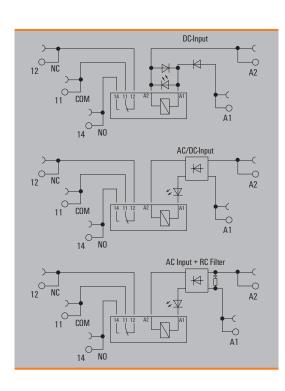
Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO	TRP 12VDC 1CO	TRP 24VDC 1CO	TRP 24VUC 1CO	TRP 48VUC 1CO
Order No.	2614830000	2618180000	2618000000	2618220000	2618240000
Screw connection Type	TRS 5VDC 1CO	TRS 12VDC 1CO	TRS 24VDC 1CO	TRS 24VUC 1CO	TRS 48VUC 1CO
Order No.	1122740000	1122750000	1122770000	1122780000	1122790000
rdering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
rdering data Control side Rated control voltage Rated current AC / DC					
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
Control side Rated control voltage	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 % 8.5 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO	TRP 120VUC 1C0	TRP 230VUC 1C0	TRP 120VAC RC 1CO	TRP 230VAC RC 1CO
Order No.	2618140000	2618010000	2618050000	2618150000	2618200000
Screw connection Type	TRS 60VUC 1CO	TRS 120VUC 1C0	TRS 230VUC 1C0	TRS 120VAC RC 1C0	TRS 230VAC RC 1CO
Order No.	1122800000	1122810000	1122820000	1122830000	1122840000
Note					

1 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 6.4 mm modular width AgNi contact with gold plating
- PUSH IN and screw connection



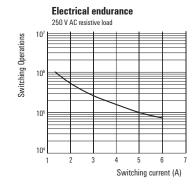


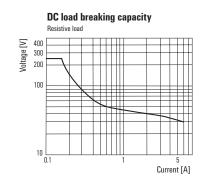
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	20 A / 20 ms
Min. switching power	1 mA @ 1 V
Contact type	1 CO contact (AgNi gold-plated)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page.

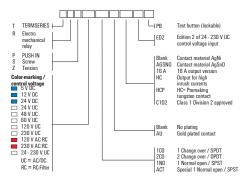
Applications





Weidmüller 🐔 3043770000

1 CO contact with hard gold-plated contacts AC/DC/UC coil



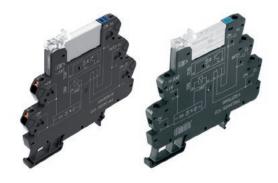
Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 33 mA	/ 18 mA	/ 11.5 mA	11.7 mA / 6.4 mA	8 mA / 7 mA
Power rating	170 mW	210 mW	280 mW	270 mVA / 154 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 1CO AU	TRP 12VDC 1CO AU	TRP 24VDC 1CO AU	TRP 24VUC 1CO AU	TRP 48VUC 1CO AU
Order No.	2618060000	2618120000	2618110000	2618160000	2618170000
Screw connection Type	TRS 5VDC 1CO AU	TRS 12VDC 1CO AU	TRS 24VDC 1CO AU	TRS 24VUC 1CO AU	TRS 48VUC 1CO AU
Order No.	1122980000	1122990000	1123000000	1123010000	1123020000
rdoring data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC RC	230 V AC RC 230 V AC ± 10 %
Irdering data Control side Rated control voltage Rated current AC / DC					
Control side Rated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 10 %	120 V AC ± 10 %	230 V AC ± 10 %
Control side Rated control voltage Rated current AC / DC	60 V UC ± 10 % 4,8 mA / 2.8 mA	120 V UC ± 10 % 4 mA / 3.5 mA	230 V UC ± 10 % 3.5 mA / 2.9 mA	120 V AC ± 10 %	230 V AC ± 10 % 8.5 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 1CO AU	TRP 120VUC 1CO AU	TRP 230VUC 1CO AU	TRP 120VAC RC 1CO AU	TRP 230VAC RC 1CO AU
Order No.	2618070000	2618080000	2618210000	2618030000	2617950000
Screw connection Type	TRS 60VUC 1CO AU	TRS 120VUC 1CO AU	TRS 230VUC 1CO AU	TRS 120VAC RC 1CO AU	TRS 230VAC RC 1CO AU
Order No.	1123030000	1123040000	1123050000	1123070000	1123080000
Note					

1 CO contact (AgSnO) AC / DC / UC coil

- Space-saving, only 6.4 mm wide
- AgSnO contact
- For capacitive and inductive loads
- PUSH IN and screw connection



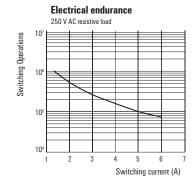
DC-Input 12 NC 11 COM 14 11 12 A2 A1 A1 A2 A2 A2 A2 A1 A1 AC/DC-Input AC Input + RC Filter A2 A2 A1 A1 A1 A2

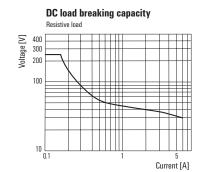
Technical data

Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	250 V
Inrush current	30 A / 20 ms
Min. switching power	100 mA @ 12 V
Contact type	1 CO contact (AgSnO)
Mechanical service life	5 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C60 °C
Storage temperature	-40 °C85 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; DETNORVER; UKCA
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 6 mm
Overvoltage category	III
Pollution degree	2

Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6
Note			refer to the TERMSERIES Accessories page. n be found at eshop.weidmueller.com

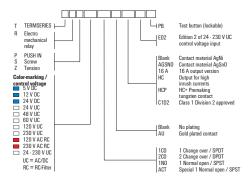
Applications





C.84 Weidmüller № 3043770000

1 CO contact (AgSnO) AC / DC / UC coil



Ordering data

Control side

Rated control voltage

Rated current AC / DC

Power rating
Status indicator
Protective circuit

Status indicator
Free-wheeling diode, Reverse polarity protection

12 V DC

12 V DC ± 20 %

/ 18 mA

210 mW

Green LED

Free-wheeling diode, Reverse polarity protection

24 V DC

24 V DC ± 20 %

/ 11.5 mA

280 mW

Green LED

Free-wheeling diode, Reverse polarity protection

24 V UC ± 10 %

11.7 mA / 6.4 mA

270 mVA / 154 mW

Green LED

Rectifier

48 V UC ± 10 %

8 mA / 7 mA

340 mW / 0.4 VA
Green LED
Rectifier

Ordering data

PUSH IN connection Type
Order No.

Screw connection Type
Order No.

Note

TRP 5VDC 1CO AGSNO
2614820000
TRS 5VDC 1CO AGSNO
2152860000

TRP 12VDC 1CO AGSNO
2617860000
TRS 12VDC 1CO AGSNO
2152880000

TRP 24VDC 1C0 AGSNO
2618020000
TRS 24VDC 1C0 AGSNO
1984540000

TRP 24VUC 1CO AGSNO
2617880000
TRS 24VUC 1CO AGSNO
2152940000

TRP 48VUC 1CO AGSNO
2617890000
TRS 48VUC 1CO AGSNO
2153060000

Ordering data
Control side
Rated control voltage
Rated current AC / DC
Power rating
Status indicator
Protective circuit

60 V UC ± 10 %

4,8 mA / 2.8 mA

170 mW, 290 mVA

Green LED

Rectifier

120 V UC ± 10 %

4 mA / 3.5 mA

0.48 VA, 420 mW

Green LED

Rectifier

230 V UC ± 10 %

3.5 mA / 2.9 mA

670 mW, 805 mVA

Green LED

Rectifier

120 V AC RC

120 V AC ± 10 %

7 mA /

840 mVA

Green LED

Rectifier, RC element

230 V AC RC

230 V AC ± 10 %

8.8 mA /

2 VA

Green LED

Rectifier, RC element

PUSH IN connection Type Order No.
Screw connection Type Order No.
Note

3043770000

TRP 60VUC 1CO AGSNO
2617870000
TRS 60VUC 1CO AGSNO
2153550000

TRP 120VUC 1C0 AGSN0
2617900000
TRS 120VUC 1C0 AGSN0
2153570000

TRP 230VUC 1CO AGSNO
2617830000
TRS 230VUC 1CO AGSNO
2153590000

TRP 120VAC RC 1C0 AGSNO
2617840000
TRS 120VAC RC 1C0 AGSNO
2152900000

TRP 230VAC RC 1C0 AGSN0
2617850000
TRS 230VAC RC 1C0 AGSN0
2152920000

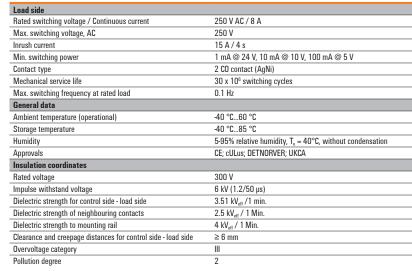
2 CO contacts AC/DC/UC coil

- Space saving, just 12.8 mm modular width
- · AgNi contact
- PUSH IN and screw connection

240 140



Technical data



Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page.

INU		
AC Input + RC Filter		_
220120		<u>,</u>
NO 1		A2
210 COM 14 11 12 A2 A1 A1		
	A1	
240 140 12		

DC Input

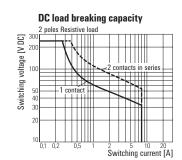
AC/DC Input

 \forall

Applications

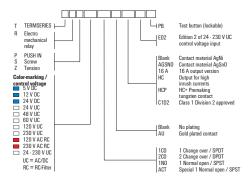
220120

Electrical endurance 250 V AC Resistive load Switching Operations Switching current [A]



Weidmüller 🏖 3043770000

2 CO contacts AC/DC/UC coil



Ordering data

Control side
Rated control voltage

Rated current AC / DC

7 0 mA

Power rating
Status indicator
Protective circuit

Status indicator
Free-wheeling diode, Reverse polarity protection

12 V DC ± 20 %

/ 33 mA

400 mW

Green LED

Free-wheeling diode, Reverse polarity protection

24 V DC

24 V DC ± 20 %

/ 20.5 mA

495 mW

Green LED

Free-wheeling diode, Reverse polarity protection

 24 V UC
 48 V UC

 24 V UC ± 10 %
 48 V UC ± 10 %

 16 mA / 14 mA
 9 mA / 7 mA

 390 mVA / 350 mW
 340 mW / 0.4 VA

 Green LED
 Green LED

 Rectifier
 Rectifier

PUSH IN connection Type
Order No.
Screw connection Type
Order No.

Note

TRP 5VDC 2C0
2614840000
TRS 5VDC 2C0
1123470000

TRP 12VDC 2CO
2618550000
TRS 12VDC 2CO
1123480000

TRP 24VDC 2CO
2618400000
TRS 24VDC 2CO
1123490000

TRP 24VUC 2C0
2618320000
TRS 24VUC 2C0
1123500000

TRP 48VUC 2CO
2618520000
TRS 48VUC 2CO
1123510000

Ordering data
Control side
Rated control voltage
Rated current AC / DC
Power rating
Status indicator
Protective circuit

60 V UC ± 10 %

8.3 mA / 6.0 mA

360 mW, 500 mVA

Green LED

Rectifier

120 V UC ± 10 %

3.5 mA / 3.5 mA

420 mVA / 420 mW

Green LED

Rectifier

230 V UC ± 5 %

5.5 mA / 4.4 mA

1 W, 1.2 VA

Green LED

Rectifier

120 V AC RC

120 V AC ± 10 %

5.5 mA /

0.6 VA

Green LED

Rectifier, RC element

230 V AC RC

230 V AC ± 5 %

8.8 mA /

2.1 VA

Green LED

Rectifier, RC element

PUSH IN connection Type Order No.

Screw connection Type Order No.

Note

TRP 60VUC 2C0
2618290000
TRS 60VUC 2C0
1123520000

TRP 120VUC 2C0
2618570000
TRS 120VUC 2C0
1123530000

TRP 230VUC 2C0
2618440000
TRS 230VUC 2C0
1123540000

TRP 120VAC RC 2C0
2618470000
TRS 120VAC RC 2C0
1123550000

TRP 230VAC RC 2C0
2618330000
TRS 230VAC RC 2C0
1123570000

3043770000 **Weidmüller 3**

2 CO contact with hard gold-plated contacts AC/DC/UC coil

- Space saving, just 12.8 mm modular width
- AgNi contact with gold plating
- PUSH IN and screw connection

240 140



250 V AC / 8 A 250 V

15 A / 4 s

0.1 Hz

300 V 6 kV (1.2/50 μs)

1 mA @ 1 V

-40 °C...60 °C

-40 °C...85 °C

3.51 kV_{eff} /1 min. 2.5 kV_{eff} / 1 Min.

4 kV_{eff} / 1 Min.

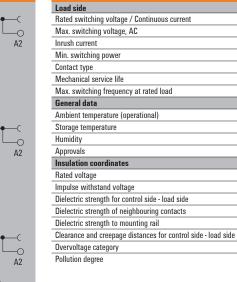
≥ 6 mm

2 CO contact (AgNi gold-plated) 30 x 10⁶ switching cycles

CE; cULus; DETNORVER; UKCA

5-95% relative humidity, $T_u = 40^{\circ}\text{C}$, without condensation

Technical data

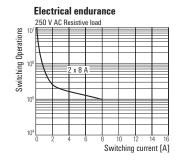


Overvoltage category		III	
Pollution degree		2	
Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	87.8 / 12.8 / 89.4	87.8 / 12.8 / 89.6
Note			efer to the TERMSERIES Accessories page.

Applications

220120

210110



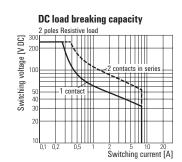
DC Input

AC/DC Input

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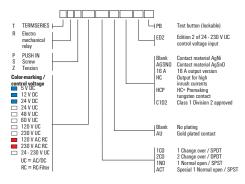
AC Input + RC Filter

H



C.88 Weidmüller ₹ 3043770000

2 CO contact with hard gold-plated contacts AC/DC/UC coil



Ordering data	5 V DC	12 V DC	24 V DC	24 V UC	48 V UC
Control side					
Rated control voltage	5 V DC ± 20 %	12 V DC ± 20 %	24 V DC ± 20 %	24 V UC ± 10 %	48 V UC ± 10 %
Rated current AC / DC	/ 70 mA	/ 33 mA	/ 20.5 mA	16 mA / 14 mA	9 mA / 7 mA
Power rating	400 mW	400 mW	495 mW	390 mVA / 350 mW	340 mW / 0.4 VA
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Free-wheeling diode, Reverse polarity protection	Rectifier	Rectifier

Ordering data					
PUSH IN connection Type	TRP 5VDC 2CO AU	TRP 12VDC 2CO AU	TRP 24VDC 2CO AU	TRP 24VUC 2CO AU	TRP 48VUC 2CO AU
Order No.	2618580000	2618310000	2618530000	2618540000	2618560000
Screw connection Type	TRS 5VDC 2CO AU	TRS 12VDC 2CO AU	TRS 24VDC 2CO AU	TRS 24VUC 2CO AU	TRS 48VUC 2CO AU
Order No.	1123710000	1123720000	1123730000	1123740000	1123750000
	EU VIIC	120 VIIIC	220 V IIC	120 V AC DC	220 V AC BC
rdering data	60 V UC	120 V UC	230 V UC	120 V AC RC	230 V AC RC
ontrol side					
Control side	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC RC	230 V AC RC
Irdering data Control side Rated control voltage Rated current AC / DC					
Control side Rated control voltage	60 V UC ± 10 %	120 V UC ± 10 %	230 V UC ± 5 %	120 V AC ± 10 %	230 V AC ± 5 %
Control side Nated control voltage Nated current AC / DC	60 V UC ± 10 % 8.3 mA / 6.0 mA	120 V UC ± 10 % 3.5 mA / 3.5 mA	230 V UC ± 5 % 5.5 mA / 4.4 mA	120 V AC ± 10 %	230 V AC ± 5 % 8.8 mA /

Ordering data					
PUSH IN connection Type	TRP 60VUC 2CO AU	TRP 120VUC 2CO AU	TRP 230VUC 2CO AU	TRP 120VAC RC 2CO AU	TRP 230VAC RC 2CO AU
Order No.	2618360000	2618590000	2618300000	2618490000	2618500000
Screw connection Type	TRS 60VUC 2CO AU	TRS 120VUC 2CO AU	TRS 230VUC 2CO AU	TRS 120VAC RC 2CO AU	TRS 230VAC RC 2CO AU
Order No.	1123770000	1123780000	1123790000	1123800000	1123810000
Note					

Timing functions

Reliable timing relays for plant and building automation

Timing relays play an important role in many areas of plant and building automation. They are always used when switch-on or switch-off processes are to be delayed or when short pulses are to be extended. They are used, for example, to avoid errors during short switching cycles that cannot be reliably detected by downstream control components. Timing relays are also a simple way of integrating timer functions into a system without PLC, or implementing them without programming effort.

The Klippon® Relay portfolio provides you with relays for various timing functions such as on-delay, off-delay, clock generator and star-delta relays. We also offer timing relays for universal applications in factory and building automation as well as multifunction timing relays with several timer functions. Our timing relays are available as a classic building automation design, a compact 6.4 mm version and with wide-range multi-voltage input. Our timing relays have the current approvals according to DNV and cULus and can therefore be used internationally.

Weidmüller ₹ 3043770000

Application range









Visit our website for more information www.weidmueller.com/tf

3043770000 **Weidmüller ₹ c.91**

TERMSERIES TIMER

Timing relay for control signal adaptation with additional functions

Timing relays are used to coordinate fast switching processes in control systems, among other things. TERMSERIES TIMER timing relays have a on-delay, which allows for the delayed switch-on of machines, the cascaded start-up of system components or the delayed activation of consumers such as pumps or valves. They also have the One Shot and blinker functions.

TERMSERIES TIMER timing relays in compact 6.4 mm terminal block format are available with either a screw connection or a PUSH IN wire connection. The timing functions and time ranges can be conveniently adjusted via the DIP switches on the side. The power supply and the respective switching status can be checked at a glance by means of the clearly visible duo LED on the ejection lever. International approvals in accordance with EN 61812 mean that they can be used anywhere in the world. TERMSERIES TIMER is compatible with the wide range of TERMSERIES accessories, thereby ensuring high levels of flexibility and simple integration into existing systems.

Your special advantages:

- Control voltage 24 V DC
- Empty socket for solid-state relays and electromechanical relays
- Simple adjustment of timing functions and time ranges
- Multifunctional design with three time functions: on-delay, One Shot and blinker



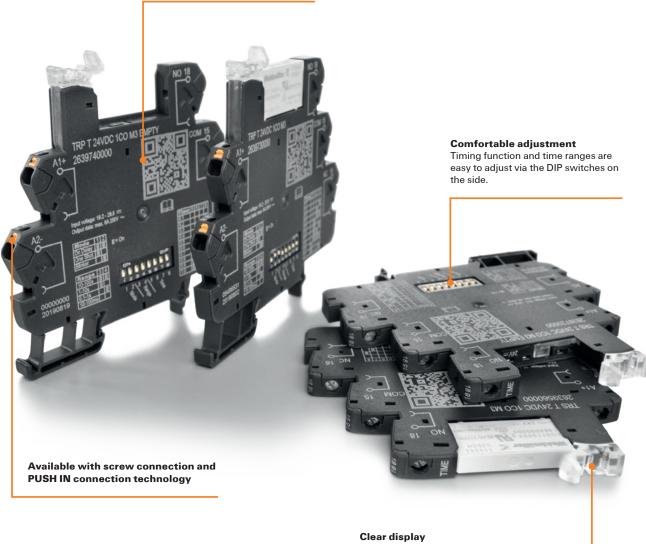


Weidmüller 🏖 3043770000

Application range

International approval

TERMSERIES timing relays comply with the requirements of EN 61812 and can be used anywhere in the world.

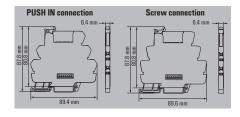


Due to the integrated Duo-LED on the ejection lever, power supply and switching status can be checked at a glance.

Weidmüller ₹ C.93 3043770000

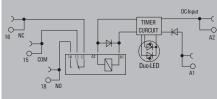
Complete modules

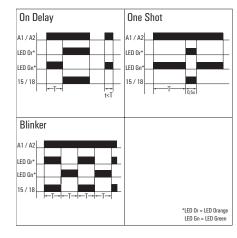
- Space-saving, 6.4 mm wide
- 3 time functions
- Complete module with 1 CO relay (AgSnO)
- PUSH IN and screw connection



TR T 24 V DC 1CO M3







Technical data

Control side

Rated control voltage

Power rating

Status indicator

Repeat accuracy

Basic accuracy

Setting tolerance

Min. pulse duration

Time ranges

Max. reset time after voltage interruption

Load side

Rated switching voltage

Max. switching voltage, AC

Max. switching voltage, DC Continuous current

AC switching capacity (resistive), max.

DC switching capacity (resistive), max.

Max. switching frequency at rated load

Contact type

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Protection degree

n	ė	ú	ш	ú	B	d	ш	ĺ
u		е		ĸ				F

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

24 V DC ± 20 %

280 mW

Duo-LED orange: relay output on, Green duo-LED lit: supply voltage on, Green duo-LED flashes: incorrect configuration, no function

± 1 %

≤ 5% (of scale-end value)

5 %

50 ms

0.01 s - 0.1 s, 0.1 s - 1 s, 1 s - 10 s, 10 s - 100 s

50

250 V AC 250 V

250 V 6 A

1500 VA

144 W @ 24 V

0.1 Hz

1 CO contact (AgSnO)

5 x 10⁶ switching cycles

-20 °C...60 °C

-40 °C 85 °C

5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation

CE; cULus; DETNORVER; UKCA

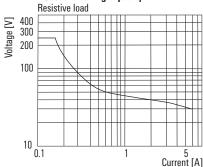
250 V

≥ 6 mm

4 kV_{eff} / 1 Min.

6 kV (1.2/50 μs) IP20

DC load breaking capacity



==	
PUSH IN connection	Screw connection
1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
87.8 / 6.4 / 89.4	87.8 / 6.4 / 89.6

	250 V	AC resi	stive lo	ad	
Operations ₁₀₁					
Switching 10g					
10 ⁵					
104	1	2 3	}	4 {	
		2 3			3 7 urrent (A)

Electrical endurance

Ordering data

Screw connection PUSH IN connection

Туре	Qty.	Order No.
TRS T 24VDC 1CO M3	10	2639560000
TRP T 24VDC 1C0 M3	10	2639730000

Note

Further approvals and technical data can be found at eshop.weidmueller.com

Accessories

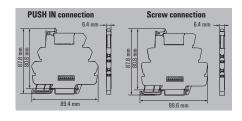
Note

Accessories: refer to the TERMSERIES Accessories page.

Weidmüller 🏖 3043770000

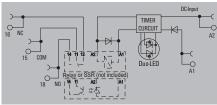
Empty socket

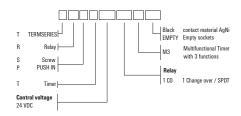
- Space-saving, 6.4 mm wide
- 3 time functions
- · Empty sockets for electromechanical relays and solidstate relays
- . PUSH IN and screw connection



TR T 24 V DC 1CO M3 EMPTY







Technical data

Control side

Rated control voltage

Power rating

Status indicator

Repeat accuracy

Basic accuracy Setting tolerance

Min. pulse duration

Time ranges

Max. reset time after voltage interruption

Load side

Rated switching voltage

Max. switching voltage, AC Max. switching voltage, DC

Continuous current

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage Protection degree

24 V DC ± 20 %

Duo-LED orange: relay output on, Green duo-LED lit: supply voltage on, Green duo-LED flashes: incorrect configuration, no function

± 1 %
≤ 5% (of scale-end value)
5 %
50 ms
0.01 s - 0.1 s, 0.1 s - 1 s, 1 s - 10 s, 10 s - 100 s
50
250 V AC

250 V 250 V 10 A

-20 °C...60 °C -40 °C...85 °C

5-95% relative humidity, $T_u = 40^{\circ}C$, without condensation

Empty socket

IP20

PUSH IN connection

15/014/25

87.8 / 6.4 / 89.4

CE: clibus: DETNORVER: IIKCA

CE, CONUS, DETNONVEN, ONCA
250 V
≥ 6 mm
4 kV _{eff} / 1 Min.
6 kV (1.2/50 μs)



Range

to ON p	10311	1011
Mode	1	2
On Delay		
One Shot		
Blinker		
Range	3	4
10-100s		
1-10s		
0.1-1s		

Time	5	6	7	8
0.1				
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				

Clamping range (nominal / min. / max.) mm² Depth x width x height mm Note

Ordering data

Screw	connection			
PUSH IN	connection			

Туре	Qty.	Order No.
TRS T 24VDC 1CO M3 EMPTY	10	2639720000
TRP T 24VDC 1CO M3 EMPTY	10	2639740000

1.5 / 0.14 / 2.5

87.8 / 6.4 / 89.6

Further approvals and technical data can be found at eshop.weidmueller.com

Accessories

Note

Note

Accessories: refer to the TERMSERIES Accessories page.

Weidmüller ₹ C.95 3043770000

Compact timing relays for building and factory automation

Timing relays fulfil many functions in industrial environments. In automation technology, they are used to compensate for errors caused by excessive cycle rates. Among other things, short pulses are extended so that they can be reliably detected by downstream control components.

Our TFI-SERIES consists of five different devices covering the most important applications in building and factory automation. Four of these carry out individual functions: clock generator (pause and pulse start), star-delta switch, on-delay and off-delay with control input. There is also a multifunctional version with seven different timing functions. The timing functions and time ranges can be easily configured using a rotary switch fitted on the front. All of the devices meet the international standards according to EN 61812 and have UL approval for the North American market.

Your special advantages:

- Recessed setting potentiometers and status indication via LED
- Suitable for control voltages from 12/24 240 V UC and ambient temperatures from -25 °C to +60 °C
- Available in installation design and compact industrial design
- · CE-compliant and UL-certified for international use





Weidmüller 🏖 3043770000

Application range

Efficient PUSH IN connection technology

Due to PUSH IN connection technology, the wiring time during installation is significantly reduced. The coloured pushers prevent incorrect wiring.



UL approval for the North American market

All timing relays have a cULus listing and can therefore be used on the North American market without any problems.

Compliance with international standards according to EN 61812

The design and function of the devices comply with the international standard for timing relays according to EN 61812.

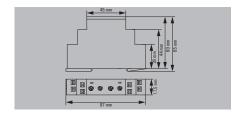


Simple configuration via rotary switch

Timing functions and time ranges are configured by means of a rotary switch on the front of the devices.

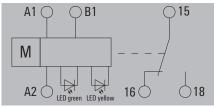
3043770000 **Weidmüller № C.97**

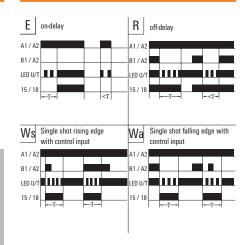
- Multi-voltage input: 12...240 V AC/DC
- · Space-saving design
- 7 time functions with separate control input
- cULus approval



TFIS 12-240VUC 1CO M7C







Technical data

Control side

Rated control voltage

Power rating Status indicator

Repeat accuracy

Basic accuracy

Setting tolerance

Min. pulse duration

Time ranges

Load side

Rated switching voltage

Max. switching voltage, AC

 ${\bf Max.\ switching\ voltage,\ DC}$

Continuous current

AC switching capacity (resistive), max.

DC switching capacity (resistive), max.

Max. switching frequency at rated load

Contact material

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Protection degree

n	Ė	ú	ш	ú	B	d	ш	ĺ
u		е		ĸ				F

Clamping range (nominal / min. / max.) mm²
Depth x width x height mm

Note

Ordering data

Screw connection PUSH IN connection

	PUSH IN connection
to.	

Note

Accessories

Note

LED green (U/t): flashes when time runs, lights permanently with supply voltage applied, LED yellow (R): relay closed

 $<\!0.5$ % or ± 5 ms $\pm 6\%$ (of scale-end value, for time range 0.05 s - 1 s), $\pm 1\%$ (of scale-

5 %

100 ms 0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 30 s - 10 min, 3 min - 1 h, 30

min - 10 h, 5 h - 100 h

end value, for all other time ranges)

250 V AC		
250		
30 V		
8 A		
2000 VA		
240 W		

20 x 10⁶ switching cycles

-25 °C...55 °C

-25 °C...70 °C 15...85 % rel. humidity, no condensation

with separate control input

10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g

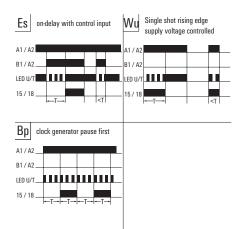
CE: cULus

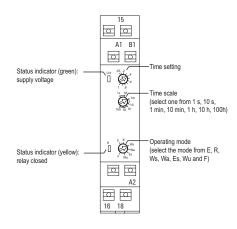
4 kV

300 V ≥ 3 mm 1.6 kV

IP2U	
Screw connection	PUSH IN connection
2.5 / 0.5 / 4	2.5 / 0.2 / 2.5
60 / 17 5 / 87	60 / 17.5 / 87

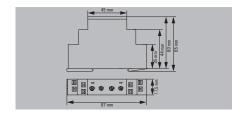
Туре	Qty.	Order No.
TFIS 12-240VUC 1C0 M7C	1	2697250000
TFIP 12-240VUC 1C0 M7C	1	2898320000





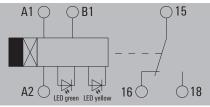
98 Weidmüller ₹ 3043770000

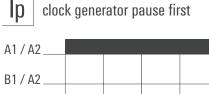
- Multi-voltage input: 12...240 V AC/DC
- · Space-saving design
- · Clock generator with separate control input
- cULus approval



TFIS 12-240VUC 1CO CG







LED U/T

Technical data

Control side

Rated control voltage Power rating

Status indicator

Repeat accuracy Basic accuracy

Setting tolerance

Min. pulse duration

Time ranges

Load side

Rated switching voltage

Max. switching voltage, AC

Max. switching voltage, DC

Continuous current

AC switching capacity (resistive), max.

 ${\sf DC}$ switching capacity (resistive), max.

Max. switching frequency at rated load

Contact material

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Clamping range (nominal / min. / max.) Depth x width x height

Ordering data

Screw connection PUSH IN connection

mm²

Note

Accessories

Note

12	240	VI	IIC -	10	0/0	/+	10 9	6

4 VA, 1.5 W

LED green (U/t): flashes slowly when time t1 runs, flashes quickly when time t2 runs, lights permanently when supply voltage is applied, LED yellow (R): relay closed

 $<\!0.5$ % or ±5 ms

±6% (of scale-end value, for time range 0.05 s - 1 s), ±1% (of scaleend value, for all other time ranges)

5 %

100 ms

0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 30 s - 10 min, 3 min - 1 h, 30 min - 10 h, 5 h - 100 h

250 V AC			
250			
30 V			
8 A			
2000 VA			
240 W			

AgNi

20 x 10⁶ switching cycles

-25 °C...55 °C -25 °C...70 °C

15...85 % rel. humidity, no condensation

10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g

CE; cULus

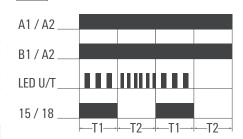
300 V ≥ 3 mm

1.6 kV 4 kV

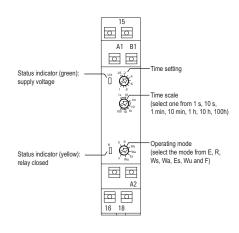
Screw connection **PUSH IN connection** 2.5 / 0.5 / 4 25/02/25 60 / 17.5 / 87 60 / 17.5 / 87

Туре	Qty.	Order No.
TFIS 12-240VUC 1C0 CG	1	2697260000
TFIP 12-240VUC 1C0 CG	1	2898310000

li clock generator pulse first

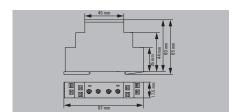


Function Ii with fixed jumper A1-B1



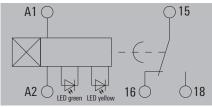
Weidmüller 🏖

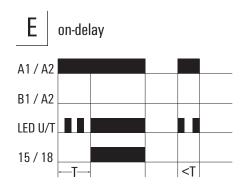
- Multi-voltage input: 24...240 V AC/DC
- · Space-saving design
- · Switch-on delayed
- cULus approval



TFIS 24-240VUC 1CO ON







Technical data

Control side

Rated control voltage Power rating Status indicator

Repeat accuracy Basic accuracy

Setting tolerance Min. pulse duration Time ranges

Load side

Rated switching voltage Max. switching voltage, AC Max. switching voltage, DC

Continuous current

AC switching capacity (resistive), max. ${\sf DC}$ switching capacity (resistive), max.

Max. switching frequency at rated load

Contact material

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature Humidity

Version Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side Dielectric strength for control side - load side

Impulse withstand voltage

Dimensions

Clamping range (nominal / min. / max.) mm² Depth x width x height

Ordering data

PUSH IN connection

Screw connection

Note

Accessories

Note

2424	0 V	UC	- 15	%	/ +	10	9

4 VA, 1.5 W

LED green (U/t): flashes when time runs, lights permanently with supply voltage applied, LED yellow (R): relay closed

<0.5 % or ±5 ms

±6% (of scale-end value, for time range 0.05 s - 1 s), ±1% (of scaleend value, for all other time ranges)

5 %

100 ms

0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 30 s - 10 min, 3 min - 1 h, 30 min - 10 h, 5 h - 100 h

250 V AC	
250	
30 V	
8 A	
2000 VA	
240 W	

AgNi

20 x 10⁶ switching cycles

-25 °C...55 °C -25 °C...70 °C 15...85 % rel. humidity, no condensation

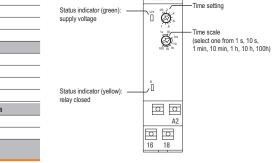
10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g

CE; cULus

300 V ≥ 3 mm 1.6 kV 4 kV

Screw connection	PUSH IN connection
2.5 / 0.5 / 4	2.5 / 0.2 / 2.5
60 / 17.5 / 87	60 / 17.5 / 87

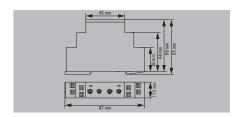
Туре	Qty.	Order No.
TFIS 24-240VUC 1CO ON	1	2697280000
TFIP 24-240VUC 1CO ON	1	2898340000



Α1

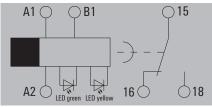
Weidmüller 🏖

- Multi-voltage input: 24...240 V AC/DC
- · Space-saving design
- Delayed-back with separate control input
- cULus approval



TFIS 24-240VUC 1CO OFFC





off-delay with control input A1/A2 B1 / A2 LED U/T 15 / 18

Technical data

Control side

Rated control voltage Power rating Status indicator

Repeat accuracy Basic accuracy

Setting tolerance Min. pulse duration Time ranges

Load side

Rated switching voltage Max. switching voltage, AC Max. switching voltage, DC Continuous current

AC switching capacity (resistive), max. ${\sf DC}$ switching capacity (resistive), max. Max. switching frequency at rated load

Contact material Mechanical service life

General data

Ambient temperature (operational)

Storage temperature Humidity

Resistance to vibration EN 61812-1

Version Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side Dielectric strength for control side - load side

Impulse withstand voltage

Clamping range (nominal / min. / max.) mm² Depth x width x height

Ordering data

Screw	connection
PUSH IN	connection

lote		

Accessories

Note

24...240 V UC - 15 % / + 10 %

4 VA, 1.5 W

LED green (U/t): flashes when time runs, lights permanently with supply voltage applied, LED yellow (R): relay closed

<0.5 % or ±5 ms

±6% (of scale-end value, for time range 0.05 s - 1 s), ±1% (of scaleend value, for all other time ranges)

5 %

100 ms

0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 30 s - 10 min, 3 min - 1 h, 30 min - 10 h, 5 h - 100 h

250 V AC
250
30 V
8 A
2000 VA
240 W

AgNi

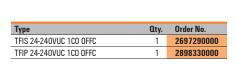
20 x 10⁶ switching cycles

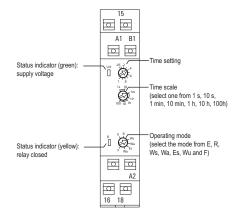
-25 °C55 °C
-25 °C70 °C
1585 % rel. humidity, no condensation
with separate control input
10 Hz 60 Hz 0 15 mm 60 Hz 150 Hz 2 g

CE; cULus

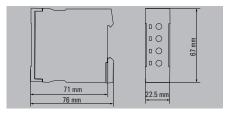
300 V ≥ 3 mm 1.6 kV 4 kV

Screw connection	PUSH IN connection
2.5 / 0.5 / 4	2.5 / 0.2 / 2.5
60 / 17.5 / 87	60 / 17.5 / 87



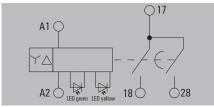


- Multi-voltage input: 12...240 V AC/DC
- · Space-saving design
- Star-delta-startup
- cULus approval

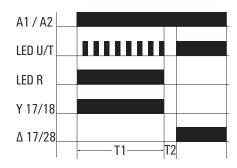


TFIS 12-240VUC 2NO SD









Technical data

Control side

Rated control voltage Power rating

Status indicator

Repeat accuracy Basic accuracy

Setting tolerance Min. pulse duration Time ranges

Load side

Rated switching voltage Max. switching voltage, AC Max. switching voltage, DC

Continuous current

AC switching capacity (resistive), max. DC switching capacity (resistive), max.

Max. switching frequency at rated load Contact material

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity Version

Resistance to vibration EN 61812-1

Approvals

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Protection degree

Dimensions

Clamping range (nominal / min. / max.) mm² Depth x width x height mm

Note

12	240 V IIC	10 %	/ _	10	0

500 mVA, 180 mW

LED green (U/t) flashes: star-relay closed, time runs, LED green (U/t) lights permanently: delta-relay closed, time runs, LED yellow (R): star-relay closed

 $<\!0.5$ % or ±5 ms

± 1 % (of scale-end value)

5 % 100 ms

0.5 s - 10 s, 1.5 s - 30 s, 3 s - 60 s, 9 s - 180 s

250 V AC 250

30 V 3 A

750 VA 90 W

20 x 10⁶ switching cycles

-25 °C...60 °C -40 °C...70 °C

5...95 % rel. humidity, no condensation

10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g

CE; cULus 300 V

≥ 3 mm 1.6 kV

4 IP 2.

7!

Туре

· kV		
20		
crew connection		
.5 / 0.5 / 4		
5 / 225 / 67		

Order No.

2697270000

Status indicator (green):supply voltage	A1 A2	Time setting
	1m 30 10s	Time scale Y (select one from 10s, 30s, 1m, 3m)
Status indicator (yellow): ————————————————————————————————————	100ms 80 80 80 80 80 80 80 80 80 80 80 80 80	Time Y-Δ (select one from 40, 60, 80 100ms)
	17 18 28	

Ordering data

Screw connection

Note

Note

Accessories

Weidmüller 🏖 C.102

3043770000 **Weidmüller № C.103**

IT-TIMER

Compact multi-functional timing relay for easy control signal adjustment

In automation technology, timing relays are used to prevent malfunctions due to high pulse times. Among other things, short pulses are extended in order to be reliably detected by subsequent control modules. Various timing functions, such as on-delay, off-delay and clock generator, are available.

With IT-TIMER, Weidmüller's range includes a highly efficient timing relay with multi-voltage input that combines a range of functions with a compact size. It is particularly easy to configure the timing functions thanks to the flat front cover, the easy-to-read LED status indicator and operation with standard tools. IT-TIMER meets the requirements of IEC 61812-1. It is designed for an operating range from 24 V DC to 48 V DC or 24 V AC to 240 V AC and can therefore be used in a wide variety of applications.

Your special advantages:

- · High level of functionality in a compact size
- Timing functions that are easy to configure using standard tools
- Can be used internationally thanks to compliance with EN 61812-1
- Seven timing functions for a wide range of applications make the IT-TIMER a smart solution for your application

C €

2.104 Weidmüller № 3043770000

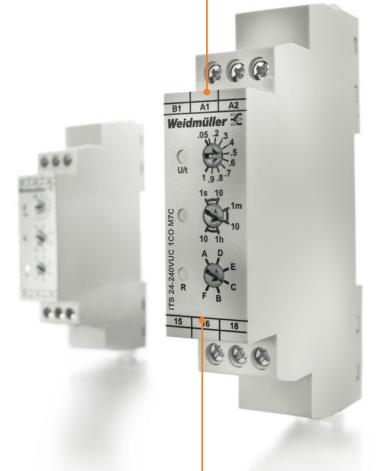
Multi-voltage input

The timing relay operates from 24 V DC up to 48 V DC and from 24 V AC up to 240 V AC. It can therefore be used in a wide range of applications.

Global standard

International usage is guaranteed in accordance with the standard IEC 61812-1.





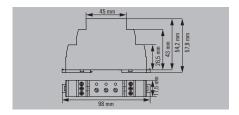
Seven timing functions

Due to its multi-functional concept, the IT-TIMER covers a broad range of typcially needed timing functions.

3043770000 **Weidmüller 3**€ **C.105**

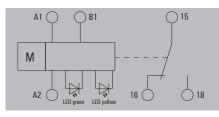
Timing relay

- Multi-voltage input: 24 - 48 V DC 24 - 240 V AC
- Space-saving construction
- 7 time functions with separate control input



ITS 24-240 V UC 1 CO M7C



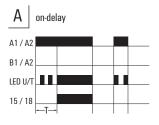


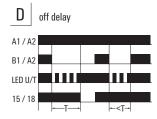
24...48 V DC - 15 % / + 10 % / 24...240 V AC - 15 % / + 10 %

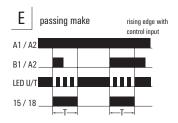
LED green (U/t): flashes when time runs, lights permanently with

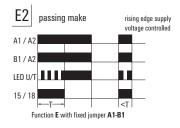
8 VA @ 230 V AC, 0.4 W at 24 V DC

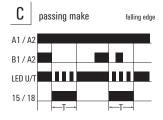
Time functions

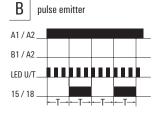


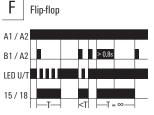












Technical data

Control side

Rated control voltage

Power rating Status indicator

Repeat accuracy Basic accuracy

Setting tolerance Min. pulse duration

Time ranges

Max. reset time after voltage interruption

Load side

Rated switching voltage

Max. switching voltage, AC

Max. switching voltage, DC

Continuous current

AC switching capacity (resistive), max.

DC switching capacity (resistive), max.

Max. switching frequency at rated load

Contact material

Mechanical service life

General data

Ambient temperature (operational)

Storage temperature

Humidity

Version

Resistance to vibration EN 61812-1 Approvals

Insulation cod

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Impulse withstand voltage

Clamping range (nominal / min. / max.) Depth x width x height

mm² mm

Dimensions

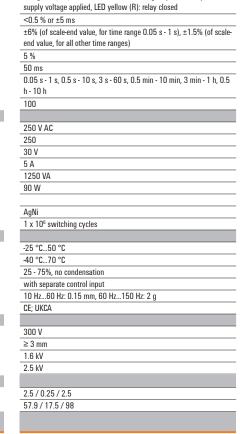
Ordering data

Screw connection Screw connection

Note

Accessories

Note





ITS 24-240VUC 1C0 M7C

ITS 24-240VUC M7C PU10

Order No.

10

2496190000

2545120000

3043770000 **Weidmüller 3 C.107**

MCZ TO

The narrow pulse stretcher measuring just 6.1 mm wide

Pulse stretchers are used in automation technology to extend very short input pulses of less than 10 ms. Such short pulses are generated by light barriers, for example, and cannot be processed by conventional timing relays. The extended pulses, on the other hand, can be forwarded directly to the PLC.

MCZ TO is one of the narrowest pulse stretchers on the market. It extends even very short pulses ≥ 3.5 ms and has a fixed switch-off delay (50 ms or 150 ms). MCZ TO operates with low input power, and auxiliary voltages in the input and output are not required. It also includes a watchdog function with restarting of the off-delay. Precisely fitting accessories such as cross-connectors, markers and end plates make it flexible to use.

Your special advantages:

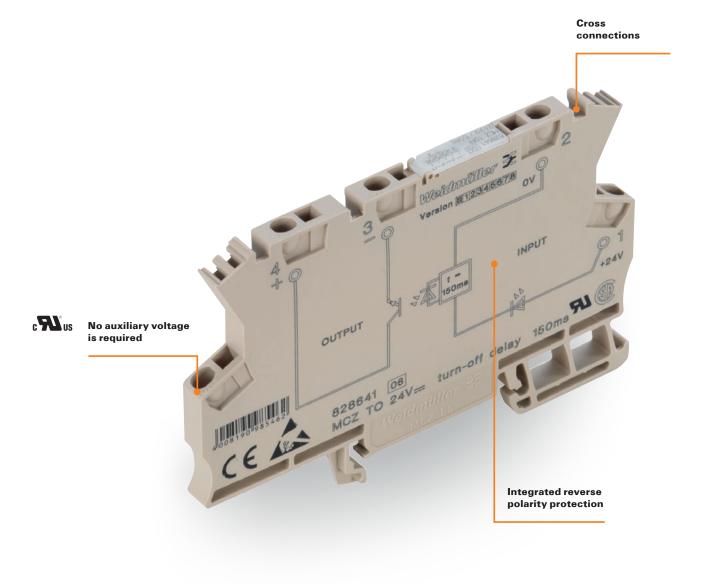
- Detection of very short input pulses (≥ 3.5 ms)
- Versatile to use thanks to three cross-connector connections
- Proven and reliable tension clamp connection system
- High level of safety thanks to integrated reverse polarity protection







Weidmüller 🏖 3043770000



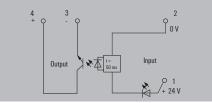
3043770000 **Weidmüller ₹ c.109**

MCZ TO

- Components for lengthening short pulses for the PLC
- · Fixed switch-off delay
- Low input power
- Screwless
- Tension clamp connection
- Width 6 mm
- For mounting on TS 35

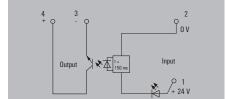
24 V DC 50 ms





24 V DC 150 ms





Technical data

Control side

Rated control voltage

Rated current AC / DC

Power rating

Min. pulse duration

Status indicator

Load side

Rated switching voltage Continuous current

Switch-off delay

Max. switching frequency at rated load

Rated data

Ambient temperature (operational)

Storage temperature

Humidity Approvals

Insulation coordinates

Rated voltage

Overvoltage category

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Clearance and creepage distances for control side - load side

Impulse withstand voltage

Pollution degree

24 V DC ±10 %
/ 6.7 mA ±10 %
160 mW
2 ms
Green LED
548 V DC
20 mA
50 ms
5 Hz
-25 °C50
-40 °C85 °C
40 °C / 93 % rel. humidity, no condensation
CE; CSA; cURus; UKCA
300 V
IV

24 V DC ±10 %
/ 6.7 mA ±10 %
160 mW
3.5 ms
Green LED
548 V DC
20 mA
150 ms
3 Hz
-25 °C50
-40 °C85 °C
40 °C / 93 % rel. humidity, no condensation
CE; CSA; cURus; UKCA
300 V
IV
1 kV _{eff} / 1 s
4 kV _{eff} / 1 Min.
≥ 5.5 mm
6 kV (1.2/50 μs)

Dimensions Clamping range (nominal / min. / max.) mm² Depth x width x height mm Note

m² 1.5 / 0.5 / 1.5 mm 63.2 / 6.1 / 91 For mounting on TS 35 rail

1 kV_{eff} / 1 s

≥ 5.5 mm

4 kV_{eff} / 1 Min.

6 kV (1.2/50 μs)

1.5 / 0.5 / 1.5 63.2 / 6.1 / 91 For mounting on TS 35 rail

Ordering data

Tension clamp connection

Туре	Qty.	Order No.
MCZ TO 24VDC/50MS	10	8324590000

Туре	Qty.	Order No.
MCZ TO 24VDC/150MS	10	8286410000

Note

Accessories

Note

AP MCZ end plate 8389030000

AP MCZ end plate 8389030000

3043770000 **Weidmüller 3 C.111**

Functional safety

Relays for processing safety-related signals

Industrial safety has become an important focus topic. There is an increasing demand for safety systems. At the same time, the demands placed on such systems are increasing. In order to provide optimum protection for plant, users, goods and the environment, dangers and incidents of all kinds should be avoided. This is also evident from the increasingly strict international standards and directives

We have specially-developed safety relays for processing safety-related signals in our product range. They achieve a safety integrity level of up to SIL3 in accordance with EN 61508 and can therefore be used flexibly in the process industry.

Relay modules with positively-driven contacts

Relay modules with positively-driven contacts are used in safety-related applications to provide reliable feedback on the switching state of the operating contact to the control system. They enable safe diagnosis via a positively-driven NC contact and ensure the reliable exchange of signals between two systems with feedback function. In elementary relays with positively-driven contacts, NO and NC contacts are mechanically connected to each other. This means that NO and NC contacts can never be closed at the same time, so that a diagnostic coverage of 99% is achieved.

9. **Weidmüller ₹** 3043770000



Weidmüller ₹ C.113

SAFESERIES SIL relays

Functional safety for process applications

Whether for a burner control system, secure emergency shut down or, for example, for pump controllers – our safety relay guarantees safe conditions and convince with superior and significant features.

Their integration into distributed control systems (DCSs) is even better, with an input filter which makes the SIL circuit immune to the test impulse which is typically used by a DCS. You will also benefit from simple maintenance: the fuses are accessible from the outside and can easily be changed. You can see the status of the safety and the monitoring devices clearly with status LED on the device.

All devices are accredited though certification by the internationally recognised TÜV-NORD group – for secure process applications around the globe.

C.114 Weidmüller ₹ 3043770000

Safe control of back-up systems

Equipped with wide range input voltages in the monitoring circuit from 24 V AC/DC to 230 V AC/DC, the relay is designed for individual use, e.g. in back-up systems or the overfill prevention devices of tank farms.

This universal device can be used for either the energise-to-safe or de-energise-to-safe operation modes, as you wish. This makes it suitable, e.g. for pump controllers or extinguishing systems.

Safe activation and deactivation







Safe monitoring of furnace firing systems

The feed-in of fuel must be interrupted as soon as a boiler plant reaches any safety criterion limits. The SAFESERIES offers you a safety switch-off for the feed-in of fuel to furnace firing systems up to safety integrity level (SIL) 3.

You have strict requirements for the functional reliability of your systems

We connect your safety-related applications reliably



Safe process and power technology is a top priority for you. For example, a reliable emergency shutdown, which initiates appropriate countermeasures in hazardous situations, is indispensable. These might extend to the automatic shutdown of the system or subsystems within it.

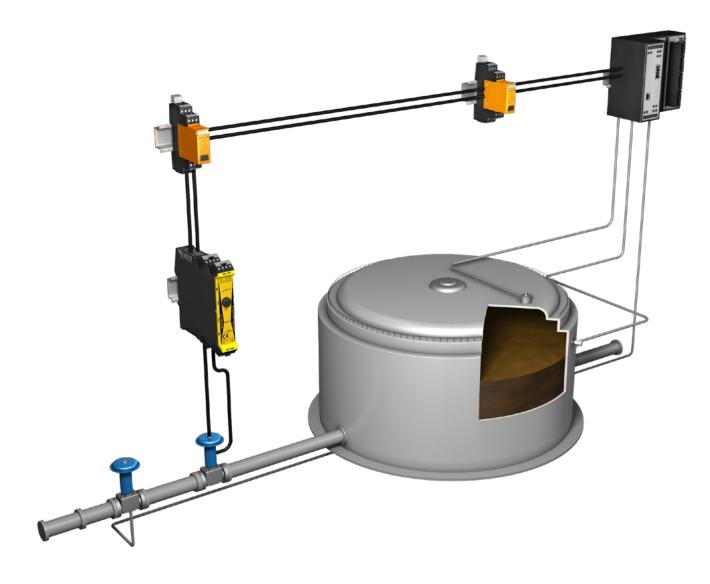
As a specialist in industrial connectivity, we offer a comprehensive solution for safety-sensitive areas, from the control room through to the field.

The SAFESERIES SIL relay is ideally suited for use in safety-related applications. It is designed for low and high demand modes.

With the wide voltage range input in the monitoring circuit of 24 V UC to 230 V UC, for example, you can control back-up systems with high DC voltage. You get additional flexibility for your applications with the optional "G3" coating for use in harsh environments.

The safe and reliable coupling of measuring instruments, actuators and sub-assemblies to the safety-relevant signal circuit is handled by our VARITECTOR SPC, the lightning and surge protection for signal circuits. Certified for safety requirement level SIL 3 according to EN 61508, and accredited by TÜV NORD, it can easily be incorporated into your safety calculations.

.116 **Weidmüller** ₹ 3043770000





SAFESERIES

- Certified to EN 61508 for SIL3
- Wide voltage input from 24 to 230 V AC/DC for the monitoring of field signals
- Variant with G3 protection for extreme conditions
- Other variants for burner management or on/off switching



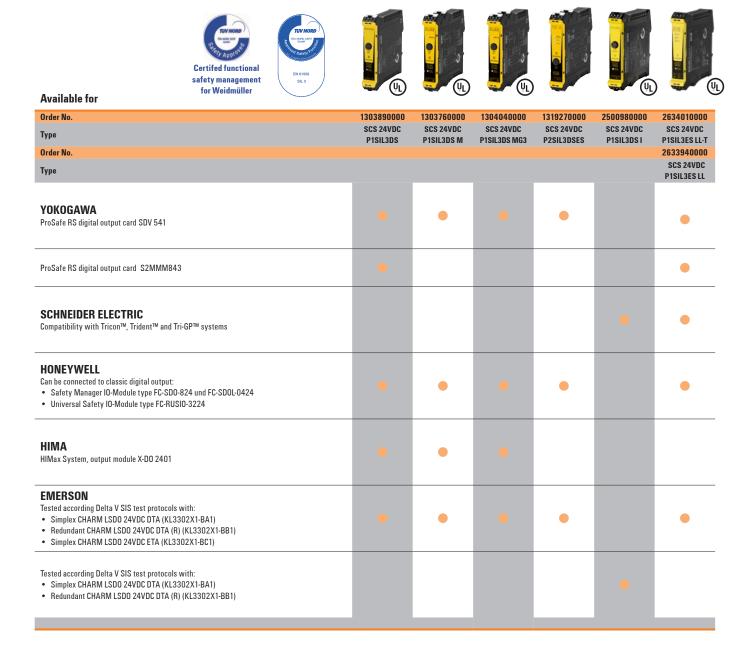
VARITECTOR SPC

- 2 analogue or 4 digital signals on a width of just 17.8 mm
- Monitoring with status indicator and message function
- Testable with V-TEST according to IEC62305
- Variants with SIL certification or EX approval

SIL-Relays of the SAFESERIES

in combination with distributed control systems

A distributed control system is characterised by a high availability of hardware and software components. Weidmüller offers for the customer the advantage that his safety relays are working reliably with different distributed control systems, proven by extensive integration tests.



18 Weidmüller ₹ 3043770000

SIL3 relays

- With and without monitoring circuit
- · Wide-range input voltage in the monitoring circuit
- · Externally accessible fuse
- TÜV-certified "Approved Safety Function"

SCS 24 V DC P1SIL3DS



The SCS 24VDC P1SIL3DS safety relay is used in areas that require a functionally safe shutdown. This component fulfils the requirements of EN 61508, SIL 3.

Technical data Temperatures

Ambient temperature (operational) Storage temperature General data

Noxious gas resistance to EN 60068-2-60

Input (safety circuit) (A1, A2)

Rated control voltage

Guaranteed current consumption of 24 VDC -10%

Power consumption

Status indicator

Input (monitor circuit) (M1, M2)

Rated control voltage

Current consumption

Status indicator

Output (safety circuit) (13, 14, 15)

Contact design

max. switching current, internal fuse

max. switching current, external fuse

max. permitted switching voltage

max, permitted switching current

min. switching power

max. switching power

Switch-on time

Base material of the contact

Internal fuse

External back-up fuse

Short-circuit-proof

Output (monitor circuit) (21, 22, 24)

Contact design

max. permitted switching voltage

max. permitted switching current

min. switching power

Base material of the contact

Switch-on time Short-circuit-proof

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Creepage and clearance distance output - output

Dielectric strength for control side - load side

Dielectric strength output - output

Dielectric strength to mounting rail Impulse withstand voltage

Overvoltage category Pollution degree

Further details of approvals / standards

Approvals

Dimensions

Clamping range (nominal / min. / max.) $\,\mathrm{mm^2}$ Depth x width x height mm

Note

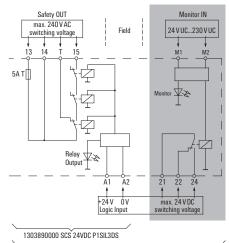
Ordering data

with monitoring
without monitoring
with monitoring and G3 gas-corrosion resistant

	with monitoring and 63 gas-corrosion resistant
Note	

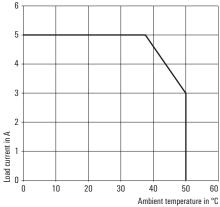
2E E0.0C	
-2550 °C	
-4085 °C	
V / - N 4004040000 1.)	
Yes (art. No.: 1304040000 only)	
24 V DC ± 20%	
35 mA	
42 mA	
LED yellow	
24 V UC230 V UC ±10 %	
23 mA @ 24 V DC, 4,4 mA @ 230 V AC	
LED yellow	
1 x de-energised to safe (NO contact)	
5 A (refer to derating curve)	
5 A (refer to derating curve)	
250 V AC / 30 V DC	
5 A	
10 mA @ 12 V	
1250 VA	
typ. 7 ms	
AgNi 0.15 gold flashed	
5 A time-lag	
5 A time-lag	
No	
CO contact	
24 V DC	
30 mA	
1 mA @ 1 V	
AgNi 5µm Au	
typ. 17 ms	
No	
300 V	
≥ 5.5 mm	
≥ 5.5 mm	
4 kV _{eff} / 1 min	
4 kV _{eff} / 1 min	
4 kV _{eff} / 1 Min.	
6 kV (1.2/50 μs)	
2	
EN 04000 EN 04000 0 0	
EN 61000, EN 61326-3-2	
CE; cULus; FUSAFETY; UKCA	
1.5 / 0.13 / 2.5	
114.1 / 22.5 / 117.3	
117.1/22.0/117.0	

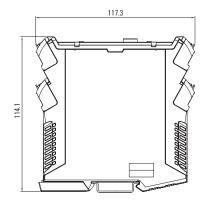
Туре	Qty.	Order No.
SCS 24VDC P1SIL3DS M	1	1303760000
SCS 24VDC P1SIL3DS	1	1303890000
SCS 24VDC P1SIL3DS MG3	1	1304040000



1304040000 SCS 24VDC P1SIL3DC MG3

Derating curve safety output







SIL3 relay

- Unresponsive to test pulses from the Triconex® output
- Proof of compatibility is available for use with the $\mathsf{Tricon}^\mathsf{TM}, \mathsf{Trident}^\mathsf{TM} \text{ and } \mathsf{Tri}\text{-}\mathsf{GP}^\mathsf{TM} \text{ systems}.$
- · Externally accessible fuse
- TÜV-certified "Approved Safety Function"

SCS 24 V DC P1SIL3DS I



The SCS 24VDC P1SIL3DS I safety relay is used in areas that require a functionally safe shutdown. This component fulfils the requirements of EN 61508, SIL 3.

Technical data

Temperatures

Ambient temperature (operational)

Storage temperature

Input (safety circuit) (A1, A2)

Rated control voltage

Power consumption Status indicator

Output (safety circuit) (13, 14, 15)

Contact design

max. switching current, internal fuse

max. switching current, external fuse

max. permitted switching voltage

max. permitted switching current

min. switching power

max. switching power

Switch-on time

Base material of the contact

Internal fuse

External back-up fuse

Short-circuit-proof

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Dielectric strength for control side - load side

Dielectric strength to mounting rail

Impulse withstand voltage Overvoltage category

Pollution degree

Further details of approvals / standards

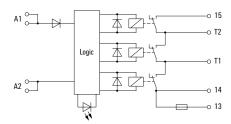
Standards

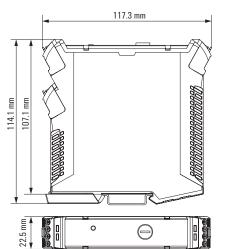
Approvals

•	-2550 °C
•	4085 °C
	24 V DC (1636 V DC)
ļ	50 mA
ı	LED yellow
	1 x de-energised to safe (NO contact)
_	5 A
ļ	5 A
	250 V AC / 30 V DC
ļ	5 A
	10 mA @ 12 V
	1250 VA
:	≤ 25 ms
ı	AgNi
ļ	5 A time-lag
ļ	5 A time-lag
I	No
	300 V
	≥ 6 mm
	3.51 kV _{eff} /5 s
1	6 kV (1.2/50 μs)
Ī	III
	2

61326-3-2

CE; cULus; FUSAFETY; UKCA





Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

1.5 / 0.13 / 2.5	
114.1 / 22.5 / 117.3	

Ordering data

with monitoring

Туре	Qty.	Order No.
SCS 24VDC P1SIL3DS I	1	2500980000

Note

Weidmüller 🏖 C.120 3043770000

SIL3 relays

- Energized/de-energized to safe
- · All-pole disconnection possible
- Test inputs for testing the relay contacts
- · Externally accessible fuse
- TÜV-certified "Approved Safety Function"

SCS 24 V DC P2SIL3DSES



The safety relay SCS 24VDC P2SIL3DSES is used in areas that require functionally safe deactivation or activation. The requirements according to EN 61508, SIL3 can be fulfilled with this module.

Technical data

Temperatures

Ambient temperature (operational)

Storage temperature

Input (safety circuit) (A1, A2)

Rated control voltage

Guaranteed current consumption of 24 VDC -10%

Power consumption Status indicator

Test inputs (X1, X2, X3)

Rated control voltage Status indicator

Number of test inputs

Output (safety circuit) (13, 14, 23, 24)

Contact design

max. switching current, internal fuse

max. switching current, external fuse

max. permitted switching voltage

max. permitted switching current

min. switching power

max. switching power

Switch-on time

Base material of the contact

Internal fuse

External back-up fuse

Short-circuit-proof

Insulation coordin

Rated voltage

Clearance and creepage distances for control side - load side

Creepage and clearance distance output - output Dielectric strength for control side - load side

Dielectric strength output - output

Dielectric strength to mounting rail

Impulse withstand voltage

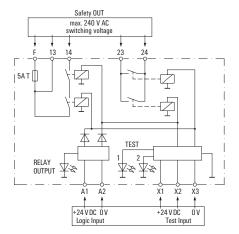
Overvoltage category Pollution degree

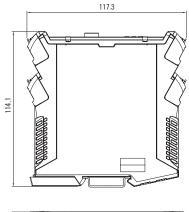
Further details of appr

Standards

Approvals

-25 °C50 °C	
-40 °C85 °C	
24 V DC -15 / +20%	Т
35 mA	
45 mA	
LED yellow	
24 V DC	
LED red flashing: test input is triggered	
2	
1 x de-energised to safe (NO contact), 1 x energised to safe ($\!\!\!$	(NO
contact)	
5 A (refer to derating curve)	
5 A (refer to derating curve)	
250 V AC	
5 A	
10 mA @ 12 V	
1250 VA	
<5.5 ms (DTS), <5 ms (ETS)	
AgNi 0.15 gold flashed	
5 A time-lag	
5 A time-lag	
No	
300 V	
≥ 5.5 mm	
≥ 5.5 mm	
4 kV _{eff} / 1 min	
4 kV _{eff} / 1 min	
4 kV _{eff} / 1 Min.	
6 kV (1.2/50 μs)	
III	
2	







Dimensions	
Clamping range (nominal / min. / max.)	$\mathrm{mm^2}$
Depth x width x height	mm
Note	

	ш
1.5 / 0.13 / 2.5	
114.1 / 22.5 / 117.3	

Ordering data

Туре	Qty.	Order No.
SCS 24VDC P2SIL3DSES	1	1319270000

EN 61000, EN 61326-3-2

CE; FUSAFETY

Note

3043770000

SIL3 relays

- · Positively-driven contacts
- · 2-channel design
- Insert according to EN 50156
- TÜV-certified "Approved Safety Function"





The feed-in of fuel must be interrupted as soon as a boiler plant reaches any safety criterion limits. The safety relay SCS 24VDC P2SIL3ES enables you to carry out a safety shutdown of the fuel supply, to safety level SIL 3.

Technical data

Temperatures

Ambient temperature (operational)

Storage temperature

Start circuit (S33, S34, S35)

Operating voltage

Function

Input (supply) (A1, A2, C1, C2)

Rated control voltage

Current consumption

Guaranteed current consumption at 24 V DC -10%

Response time

Status display

Short-circuit detection

Monitoring circuit (S11, S12, S21, S22)

Operating voltage

Input

Output (release circuit) (13, 14, 23, 24)

Contact version

Switching voltage AC, max.

max. permitted switching current

min. switching power

max. switching power Switch-on time

Switch-off time

Contact base material

max. switching current, external fuse

external back-up fuse

Feedback output (31, 32)

Contact version

Switching voltage AC, \max .

Max. switching current

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

 $\label{lem:continuous} \mbox{Creepage and clearance distance output - output}$

Dielectric strength for control side - load side

Dielectric strength output - output Dielectric strength to mounting rail

Impulse withstand voltage

Overvoltage category Pollution degree

Further details of approvals / standards

Standards

Approvals

Dimensions

Clamping range (nominal / min. / max.) mm²
Depth x width x height mm

Note

C.122

Ordering data

Note

-25	°C55 °C
	°C85 °C
70	003 0
22	V DC, from internal power supply
	ng edge (button via S33/S34), rising edge (permanent bridge vi //S35)
24	V DC ±15 %, 24 VDC +15% / -10% during auto-start
55 35	mA (release circuit enabled), 6 mA (release circuit not enabled)
	h bridge via C1/C2: typ. 50 ms, without bridge via C1/C2: typ.
LED	green: supply, Yellow LED: signal
Yes	, max. 4 s up to disconnection (thermistor)
22	V DC, from internal power supply
2, e	ach externally bridgeable
2 N	O positively-driven (EN 50205 type B)
250	1 000000 V
	3.000000 ¥
5 A	
	mA @ 12 V
10 125	mA @ 12 V 50 VA
10 125 55	mA @ 12 V 50 VA
10 125 55 of n	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit)
10 125 55 of n	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit)
10 125 55 of n	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit) ms (C1/C2 bridged, switched via A1/A2), 15 ms (opening/closi nonitoring circuit)
10 125 55 of n 55 of n	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit) ms (C1/C2 bridged, switched via A1/A2), 15 ms (opening/closi nonitoring circuit)
10 125 55 of n 55 of n AgS	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit) ms (C1/C2 bridged, switched via A1/A2), 15 ms (opening/closi nonitoring circuit)
10 125 55 of n 55 of n AgS	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit) ms (C1/C2 bridged, switched via A1/A2), 15 ms (opening/closi nonitoring circuit)
10 1 125 55 of n 55 of n AgS 5 A	mA @ 12 V 50 VA ms (C1/C2 bridged, switched via A1/A2), 30 ms (opening/closi nonitoring circuit) ms (C1/C2 bridged, switched via A1/A2), 15 ms (opening/closi nonitoring circuit)

300 V

≥ 5.5 mm

≥ 5.5 mm 4 kV_{eff} / 1 min

 $4 \text{ kV}_{\text{eff}} / 1 \text{ min}$

4 kV_{eff} / 1 Min.

CE; FUSAFETY

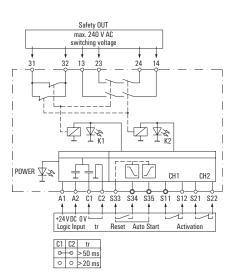
1.5 / 0.13 / 2.5

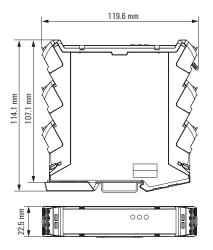
114.1 / 22.5 / 119.6

6 kV (1.2/50 μs)

EN 61000, EN 61326-3-2, EN ISO 13849-1 (PLe)

Qty.	Order No.
1	1319280000
	Q ty.





3043770000 **Weidmüller ₹ C.123**

SIL3 relays

- · Wire break detection and load monitoring in load circuit
- · Energized to safe
- · Approvals for Ex-areas
- 17,5 mm width
- TÜV-certified "Approved Safety Function"
- Ambient temperature (operational): max 50 °C

SCS 24VDC P1SIL3ES LL



The safety relay SCS 24VDC P1SIL3ES LL is used in areas that require functionally safe activation. The integrated diagnostic function enables monitoring of wire breakage and load errors on the load side.

The requirements according to EN 61508, SIL3 can be met with this component. The safety relay can be operated at ambient temperatures of up to 50 °C without switching current derating.

Technical data

Temperatures

Ambient temperature (operational)

Storage temperature

Input (supply) (OV, 24V)

Rated control voltage

Current consumption

Input (safety circuit) (A1, A2)

Rated control voltage Power consumption

Status indicator

Test inputs (T1, T2, T3)

Rated control voltage

Output (safety circuit) (L, N, 13, 14)

Contact design

max. switching current, external fuse

max. permitted switching voltage

max. switching power

min. switching power

Switch-on time

Alarm output (M13, M14)

Contact design

Output current, max.

Status indicator (Alarm output)

Short-circuit-proof

Diagnosis output (D21, D22)

Contact design

Switching voltage, max.

Switching, current, max. Switching capacity, min.

Status indicator

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Creepage and clearance distance output - output

Dielectric strength for control side - load side

Dielectric strength output - output Overvoltage category

Pollution degree

Further details of approvals / standards

Approvals

Standards

Dimensions	
Clamping range (nominal / min. / max.)	$\mathrm{mm^2}$
Depth x width x height	mm

Note

Note

Ordering data

-40 °C 50 °C -40 °C...85 °C 24 V DC ±20 % < 40 mA + M14 24 V DC ± 20%

LED yellow (RLY): lights up when input circuit (A1,A2) of the device

is actuated 24 V DC ±20 %

1 x energised to safe (NO contact)

2.5 A

56 mA

250 V AC

625 VA

30 mA @ 15 V

50 ms

100 mA

LED red (ERR): flashes when device detects a fault, supply voltage applied and input circuit (A1, A2) not actuated

Yes, without time limit

1 NC contact

30 V 100 mA

1 mW

LED green (DIAG): lights up when supply voltage applied and input circuit (A1, A2) not actuated

	ı
300 V	
≥ 6 mm	
≥ 6 mm	
3.51 kV _{eff} /1 min.	
3.51 kV _{eff} /1 min.	
III	
2	

CCCEX; CE; cULus; cULusEX; DEMKOATEX; FUSAFETY; IECEXULD;

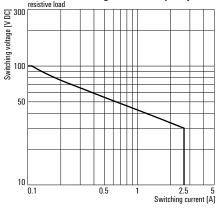
EN 61010-1, EN 61010-2-201, EN 61326-3-2, EN 61326-1, EN 61326-3-1, DIN EN 61508

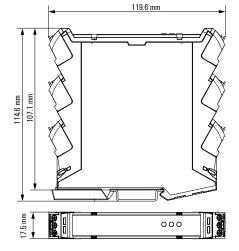
1.5 / 0.13 / 2.5 119.2 / 17.5 / 113.6

Туре	Qty.	Order No.
SCS 24VDC P1SIL3ES LL	1	2633940000

DIAG RLY ERR Control A1 ∞ A2 ○ o13 Diagnostic **∘14** Logic Monitoring M130-M140-Alarm T1T2T3 24V 0V

DC Load breaking curve safety output





Weidmüller 🏖 3043770000

SIL3 relays

- · Wire break detection and load monitoring in load circuit
- · Energized to safe
- · Approvals for Ex-areas
- 22,5 mm width
- TÜV-certified "Approved Safety Function"
- Ambient temperature (operational): max 70 °C

SCS 24VDC P1SIL3ES LL-T



The safety relay SCS 24VDC P1SIL3ES LL-T is used in areas that require functionally safe activation. The integrated diagnostic function enables monitoring of wire breakage and load errors on the load side.

The requirements according to EN 61508, SIL3 can be met with this component. The safety relay can be operated at ambient temperatures of up to 70 °C without switching current derating.

Technical data

Temperatures

Ambient temperature (operational)

Storage temperature

Input (supply) (OV, 24V)

Rated control voltage

Current consumption

Input (safety circuit) (A1, A2)

Rated control voltage Power consumption

Status indicator

Test inputs (T1, T2, T3)

Rated control voltage

Output (safety circuit) (L, N, 13, 14)

Contact design

max. switching current, external fuse

max. permitted switching voltage

max. switching power

min. switching power

Switch-on time

Alarm output (M13, M14)

Contact design

Output current, max.

Status indicator (Alarm output)

Short-circuit-proof

Diagnosis output (D21, D22)

Contact design

Switching voltage, max.

Switching, current, max.

Switching capacity, min.

Status indicator

Insulation coordinates

Rated voltage

Clearance and creepage distances for control side - load side

Creepage and clearance distance output - output Dielectric strength for control side - load side

Dielectric strength output - output

Overvoltage category

Pollution degree Further details of approvals / standards

Approvals

Standards

Dimensions

Clamping range (nominal / min. / max.) $\,\mathrm{mm^2}$ Depth x width x height mm

Note

Ordering data

Note

-40 °C 70 °C -40 °C...85 °C 24 V DC ±20 % < 40 mA + M14 24 V DC ± 20% 71 mA

LED yellow (RLY): lights up when input circuit (A1,A2) of the device

is actuated 24 V DC ±20 %

1 x energised to safe (NO contact)

2,5 A

250 V AC

625 VA

30 mA @ 15 V 50 ms

100 mA

LED red (ERR): flashes when device detects a fault, supply voltage applied and input circuit (A1, A2) not actuated

Yes, without time limit

1 NC contact 30 V

100 mA

1 mW

LED green (DIAG): lights up when supply voltage applied and input circuit (A1, A2) not actuated

300 V	
≥ 6 mm	
≥ 6 mm	
3.51 kV _{eff} /1 min.	
3.51 kV _{eff} /1 min.	
III	
2	

CCCEX; CE; cULus; cULusEX; DEMKOATEX; FUSAFETY; IECEXULD;

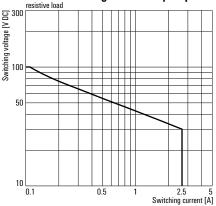
1.5 / 0.13 / 2.5 119.2 / 22.5 / 113.6

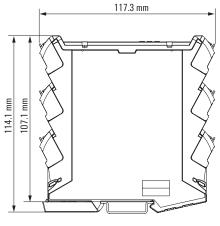
Qty. Order No.

Control A1 ∞ A2 ○ o13 D210 Diagnostic Logic Monitoring M130-M140-Alarm T1T2T3 24V 0V

DIAG RLY ERR

DC Load breaking curve safety output







SCS 24VDC P1SIL3ES LL-T 2634010000

Weidmüller ₹ C.125

SAFESERIES Contact Extension

Pluggable relay modules with positively driven contacts

Relay modules with positively driven contacts are used for functional safety. The SAFESERIES Contact Extension uses relays with forcibily giuded contacts in accordance with EN 61810-3 Type A. This makes it predestined for signal monitoring in applications for the protection of people and machinery.

The SAFESERIES Contact Extension ensures safe feedback to the control level. It consists of five different pluggable relays with matching screw sockets in the contact version 2 NO + 2 NC, 3 NO + 1 NC, 5 NO + 1 NC, 4 NO + 2 NC, and 3 NO + 3 NC. When the application is designed according to EN/ISO 13849-1, a performance level of PL "e" can be achieved. The basic component is also suitable for safety applications according to IEC/EN 62061 in order to achieve a safety integrity level of SIL3.







Weidmüller 🏖 3043770000

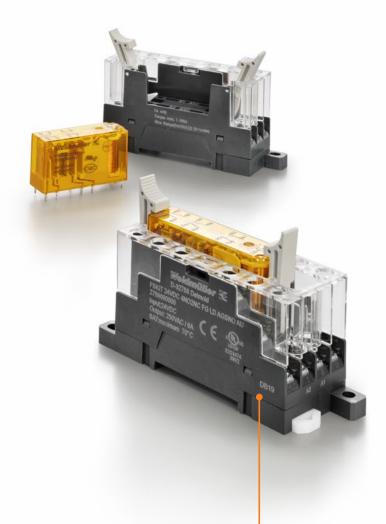
Easy installation

The socket allows easy installation on the mounting rail. It features a freewheeling diode, a status LED, and an ejection lever. The use of ring and fork cable lugs is possible.



Proven component

Suitable as a safe contact multiplier with matching safety switching devices and the remote I/O system "u-remote". The positive drive ensures synchronous switching status at the contacts and achieves a diagnostic coverage of 99 %.



Comprehensive approvals

The cULus listed designation saves the cost of an overall system approval in North America. The CQC marking proves conformity with Chinese quality, environmental, and performance standards.

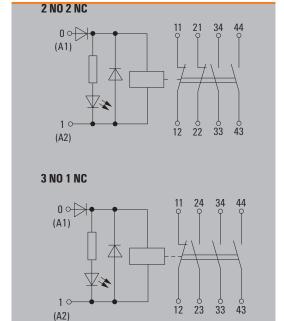
3043770000 **Weidmüller 3 C.127**

4 Kontakte





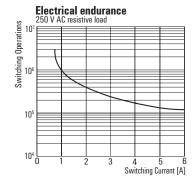
Technical data

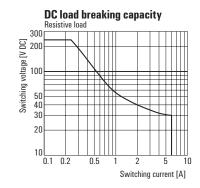


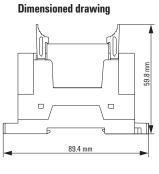
lechnical data	
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	400 V
Inrush current	30 A / 20 ms
Min. switching power	2 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 3 mm
Overvoltage category	III
Pollution degree	2

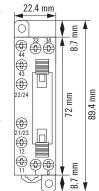
Dimensions		Screw connection	
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.5 / 1.5	
Depth x width x height	mm	59.8 / 22.4 / 89.4	
Note			

Applications



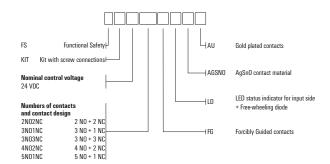






C.128 Weidmüller ≦ 3043770000

4 Contacts



Ordering data

Control side

Rated control voltage Rated current AC / DC Power rating Status indicator Protective circuit Contact type

24 V DC 2NO2NC

24 V DC ±10 %
/ 20 mA
480 mW
Green LED
Free-wheeling diode

2 NC and 2 NO contacts forcibily guided (EN 61810-3 type A) (AgSnO gold-plated)

24 V DC 3NO1NC

24 V DC ±10 %	
/ 20 mA	
480 mW	
Green LED	
Free-wheeling diode	

1 NC and 3 NO contacts forcibily guided (EN 61810-3 type A) (AgSnO gold-plated)

Ordering data

Screw connection

Type Order No. Type Order No.

Note

FSKIT 24VDC 2N02NC FG LD AGSNO AU **2759080000**

FSKIT 24VDC 3NO1NC FG LD AGSNO AU

2759070000

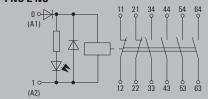
3043770000 **Weidmüller ₹ C.129**

6 contacts









5 NO 1 NC

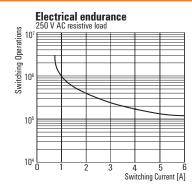
Technical data

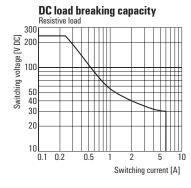
Load side	
Rated switching voltage / Continuous current	250 V AC / 6 A
Max. switching voltage, AC	400 V
Inrush current	30 A / 20 ms
Min. switching power	2 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-40 °C70 °C
Storage temperature	-40 °C70 °C
Humidity	585 % rel. humidity, no condensation
Approvals	CE; cULus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Clearance and creepage distances for control side - load side	≥ 3 mm
Overvoltage category	III
Pollution degree	2

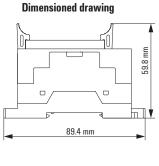
Dimensions		Screw connection	
Clamping range (nominal / min. / max.)	mm ²	1.5 / 0.5 / 1.5	
Depth x width x height	mm	59.8 / 29.8 / 89.4	
Note			

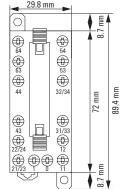
Applications

1 O (A2)



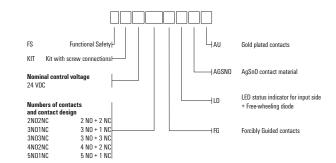






C.130 Weidmüller ₹ 3043770000

6 contacts



Ordering data

Control side Rated control voltage

Rated current AC / DC Power rating Status indicator Protective circuit Contact type

24 V DC 3NO 3NC

24 V DC ±10 %	
/ 25.5 mA	
620 mW	
Green LED	
Free-wheeling diode	

3 NC and 3 NO contacts forcibily guided (EN 61810-3 type A) (AgSnO gold-plated)

24 V DC 4NO 2NC

24 V DC ±10 %	
/ 25.5 mA	
620 mW	
Green LED	
Free-wheeling diode	

2 NC and 4 NO contacts forcibily guided (EN 61810-3 type A) (AgSnO gold-plated)

24 V DC 5NO 1NC

24 V DC ±10 %
/ 25.5 mA
620 mW
Green LED
Free subseding diede

Free-wheeling diode
1 NC and 5 NO contacts forcibily guided (EN 61810-3 type A)
(AgSnO gold-plated)

Ordering data

Screw connection Type Order No. Туре

Order No.

Note



FSKIT 24VDC 4NO2NC FG LD AGSNO AU 2759090000

FSKIT 24VDC 5NO1NC FG LD AGSNO AU 2860020000

Weidmüller ₹ C.131 3043770000

TERMSERIES FG

Proven switching condition monitoring of signals

In safety-related applications, relays with positively-driven contacts have proven themselves many times over. The positively-driven operation ensures a synchronous switching status at both contacts, so that the signal contact maintains the same switching status in the event of an error. Thus, diagnostic coverage of 99% is achieved.

Our TERMSERIES relay modules are predestined for secure signal monitoring in a wide range of applications. Their switching function is clearly indicated by an illuminated ejection lever, which also has an integrated marker holder. Compatibility with all accessories from the TERMSERIES allows high flexibility and easy integration into existing systems. TERMSERIES relay modules have the cULus certification required for use in the North American market.

Your special advantages:

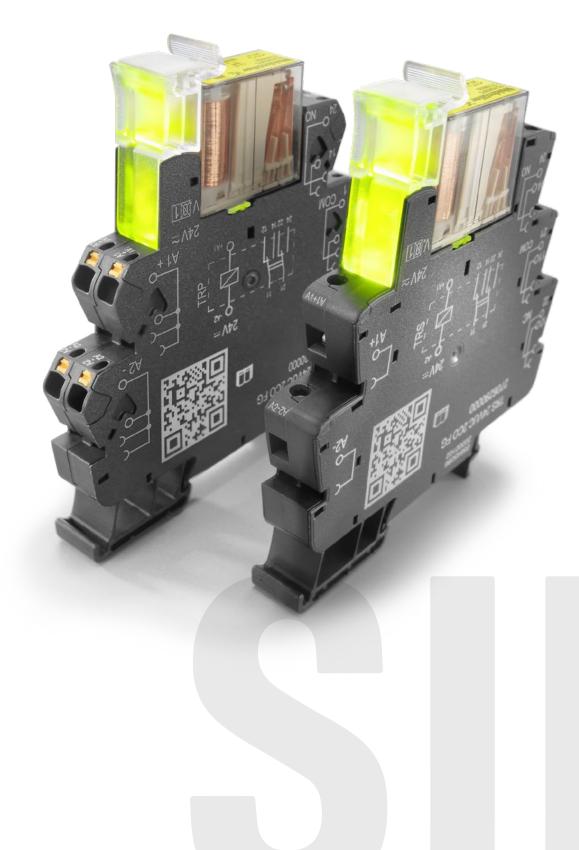
- Relay modules for monitoring signals for opening failure
- Two positively-driven CO contacts in accordance with EN 61810-3 type B
- Optional with screw and PUSH IN connection
- "cULus Listed" certification for use in the North American market





Weidmüller 🏖 3043770000

Application range



TERMSERIES FG

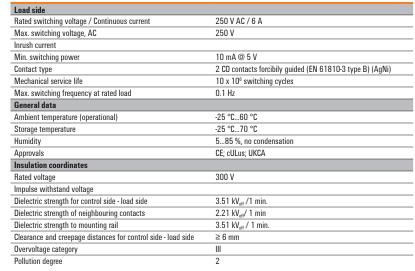
Complete module with relay

- Space-saving 12.8 mm width
- AgNi contact
- Bright shining status LED
- · With protective circuitry
- PUSH IN and screw connection



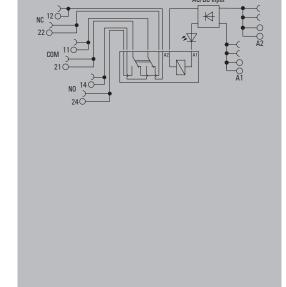


Technical data

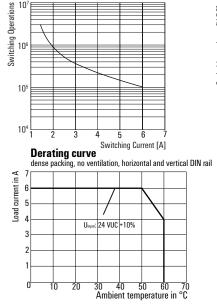


Dimensions		PUSH IN	Screw connection
Clamping range (nominal / min. / max.)	mm²	1.5 / 0.14 / 2.5	1.5 / 0.14 / 2.5
Depth x width x height	mm	97.5 / 12.8 / 89.6	97.5 / 12.8 / 89.6
Note	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page. Further approvals and technical data can be found at eshop.weidmueller.com		

AC/DC Input

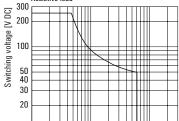


Applications



Electrical endurance

250 V AC resistive load

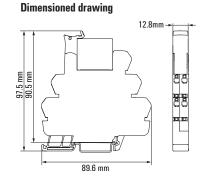


5 10 20 Switching current [A]

0,1 0,2

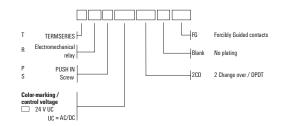
0,5

DC load breaking capacity



134 Weidmüller ₹ 3043770000

TERMSERIES FG



Ordering data	24 V UC
Control side	
Rated control voltage	24 V UC ±10 %
Rated current AC / DC	24.4 mA / 23.5 mA
Power rating	585 mVA, 565 mW
Status indicator	Green LED
Protective circuit	Rectifier

Ordering data		
DITOTI IN	_	TDD 0.41/110.000.50
PUSH IN connection	Туре	TRP 24VUC 2CO FG
	Order No.	2706430000
Screw connection	Type	TRS 24VUC 2CO FG
	Order No.	2706290000
Ordering data		
Spare relay		
	Type	RCH424024FG
	Order No.	2723360000
Note		

3043770000 **Weidmüller № C.135**

Power

Special relays for high industrial loads

If currents above 10 A have to be switched, standard relays are subject to high wear and quickly reach the limits of their service life. Our power switches has been specially developed to control high AC loads. They are ideally suited for motors or heating elements up to 35 A and can be used in many other power applications.

Power solid-state relays (PSSR) up to 30 A

Our solid-state contactors are far superior to mechanical contactors. They achieve higher switching speeds and are more robust and durable. They switch ohmic and inductive loads silently, wear-free and reliably – even in dusty or chemically aggressive atmospheres.

Miniature contactors (PWR) up to 30 A

Conventional contactors are oversized for some power applications in which industrial relays wear quickly and only achieve a short service life. This is where our PWR miniature contactors are used. Thanks to switching currents of up to 30 A, a double-break contact and a significantly larger contact gap, they are able to switch industrial loads reliably.

36 Weidmüller ₹ 3043770000



Visit our website for more information www.weidmueller.com/pw

C

Power solid-state relays

Switch high AC loads up to 30 A completely wear-free and noiseless

Due to their high shock and vibration resistance, the large switching current and the option of simple fusing, our power solid-state relays outperform by far any electromagnetic relays, especially in the process industry.

The compact modules need just a low control power at the input, have fast response times and operate noiseless. For special applications, a variant with a monitoring circuit enables current and temperature monitoring.

Our new power solid state relays are ideally suited for a multitude of diverse tasks: switching of pipe heaters and infrared heaters, or permanent current monitoring.

3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000 3043770000

1- and 3-phase, 30 A AC and 15 A DC

Our portfolio includes three solid-phase solid-state contactors for AC switching voltages up to 600 V AC, 30 A AC, one for DC switching voltages up to 1000 V DC, 15 A DC and a triple-phase solution for AC switching voltages up to 600 V AC, 20 A AC.

Ready to use with integrated heat sink

Thanks to the integrated heat sink with mounting rail base, our solid-state contactors are quick and easy to install. No complicated calculation and selection of the heat sink and no drilling required.







Special version with monitoring circuit

Another special variant includes an integrated monitoring circuit for monitoring the switching current. Partial load failures and defective semiconductors are easily recognisable. The temperature of the power semiconductor is also monitored.

Spacesaving installation

The single-phase solid-state relays with a width from 17.8 mm (single-phase) save space and simplify wiring. They have the same width as miniature circuit-breakers and can be installed in line under the miniature circuit-breakers.

Special version for high DC voltages

The special version with DC output enables the switching of high DC voltages up to 1000 V DC. This means that even large inductive DC loads can be switched reliably and silently where normal power relays already fail.

DC industry ready

Thanks to the switching voltage of up to 1000 V DC, the special version with DC output is also suitable for use in the DC industry segment.

- \bullet Single-phase load circuit: 24...230 V AC / 20 A
- · Ready-to-use: snap on connect ready
- · Zero-cross switch
- · Noiseless, wear-free switching

PSSRN K 24VDC 1Z K 240VAC 20A



Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage Continuous current

Min. switching current

Max. switching current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Output voltage frequency range Pulse load, max, current

Load category Load limit integral (I^2t) <10 ms

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals

Standards

Insulation coordinates

Impulse withstand voltage

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions

Clamping range (rated / min. / max.) control side

Clamping range (rated / min. / max.) load side

Depth x width x height Note

mm

Ordering data

/ 0.75 / 2.5 /2.5/6 103 / 17.8 / 110



Note



Green LED Reverse polarity protection

Thyristor (zero-cross switch) 24...230 V AC +10% -15%

20 A

150 mA 20 A

<3 mA

No / Integrated varistor, RC element ≤ 10 ms / ≤ 10 ms 45...65 Hz

325 A (10 ms, non-recurrent)

AC 51, AC 53

525 A²s

-40 °C...80 °C -40 °C...100 °C

95% relative humidity, non-condensing @ 40°C

CE; cULus

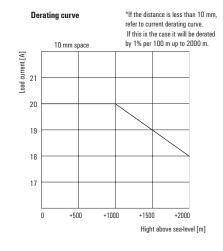
6 kV (1.2/50 μs)

Order No. Qty. PSSRN K 24VDC 1Z K 240VAC 20A 2986890000

Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.

Current Derating Curve Load Current(A) 10 mm 20 5 mm 0 mm 10 n 0 10 20 30 40 60

Ambient Temperature (°C)



Accessories

Note

Weidmüller 🏖 C.140 3043770000

- \bullet Single-phase load circuit: 42...600 V AC / 30 A
- · Ready-to-use: snap on connect ready
- · Zero-cross switch
- · Noiseless, wear-free switching

PSSRN K 24VDC 1Z K 600VAC 30A



Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage

Continuous current Min. switching current

Max. switching current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Output voltage frequency range

Pulse load, max. current

Load category

Load limit integral (I2t) <10 ms

General data

Ambient temperature (operational)

Storage temperature

Humidity Approvals

Standards

Insulation coordinates

Impulse withstand voltage

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions

Clamping range (rated / min. / max.) control side

Clamping range (rated / min. / max.) load side

Depth x width x height Note

mm

Ordering data

Screw connection

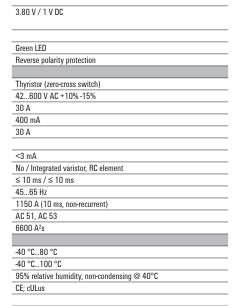


Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.

Accessories

Note

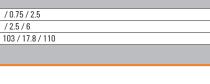
Note

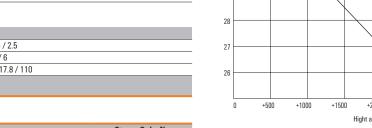


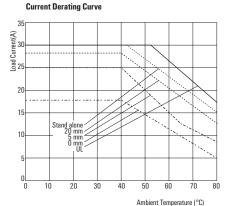
4...32 V DC

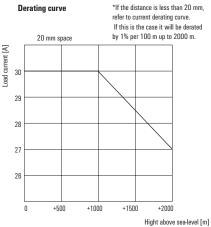
6 kV (1.2/50 μs)

2









Weidmüller 3€ C.141 3043770000

- \bullet Single-phase load circuit: 42...600 V AC / 30 A
- · Ready-to-use: snap on connect ready
- · Zero-cross switch
- · Noiseless, wear-free switching
- · With monitoring module
- · High capacity for handling surge currents $I^2t = 6000 A^2s (10 ms)$
- · Fusing with B circuit breaker possible

PSSRN S 24VDC 1M K 600VAC 30A T



Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage Continuous current

Min. switching current

Max. switching current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Output voltage frequency range Pulse load, max, current

Load category

Load limit integral (I^2t) <10 ms

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals Standards

Insulation coordinates

Impulse withstand voltage

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions

Clamping range (rated / min. / max.) control side

Clamping range (rated / min. / max.) load side

Depth x width x height Note

mm

Ordering data

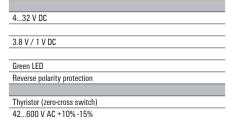


Screw connection



Accessories

Note



30 A 1.2 A 30 A ≤20 V <3 mA No / Integrated varistor ≤ 10 ms / ≤ 10 ms 45...65 Hz 1150 A (10 ms, non-recurrent) AC 51

-25 °C...70 °C -40 °C...100 °C 95% relative humidity, non-condensing @ 40°C

6600 A2s

CE; cULus

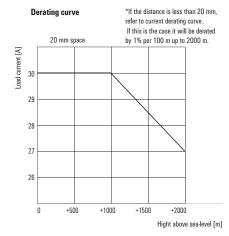
6 kV (1.2/50 μs)





Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.

Current Derating Curve Current(A) 25 Load 0 mm 10 mm Stand alone UL curve 20 15 5 10 20 30 40 50 60 Ambient Temperature (°C)



Weidmüller 🏖 C.142 3043770000

- Load circuit 1-phase20.4...1000 V DC / 15 A
- · Ready-to-use: snap on-connect-ready
- \bullet For switching high DC loads up to 1000 V
- Noiseless, wear-free switching

PSSRN K 24VDC 1D K 1000VDC 15A



Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side Solid-state type

Rated switching voltage

Continuous current

Min. switching current

Max. switching current

Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay Output voltage frequency range

Pulse load, max, current

Load category Load limit integral (I^2t) <10 ms

General data

Ambient temperature (operational)

Storage temperature

Humidity

Approvals

Standards

Insulation coordinates

Impulse withstand voltage

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions

Clamping range (rated / min. / max.) control side

Clamping range (rated / min. / max.) load side

Depth x width x height Note

mm

Ordering data





Accessories

Note

Note



Green LED

IGBT				
20.4	.1000	٧	DC	(IEC

15 A 20 mA 15 A

≤ 1 6 V <1.5 mA

No / Integrated free-wheel diode 0.1 ms / 250 μs

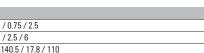
200 A (10 μs, non-recurrent)

DC1, DC 3, DC 5

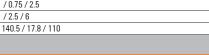
-40 °C80 °C	
/n °C 100 °C	

95% relative humidity, non-condensing @ 40°C CE; cULus

6 kV (1.2/50 μs)



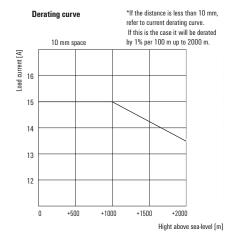






Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.

Derating Curve Load Current(A) 5mm spacing mm spacing 10 20 30 40



Weidmüller ₹ C.143

- Load circuit 3-phase 42...600 V AC / 24 A
- · Ready-to-use: snap on-connect-ready
- · Noiseless, wear-free switching
- · Wear-free & silent switching

PSSRN K 24VDC 3Z K 600VAC 20A



Technical data

Control side

Rated control voltage

Power rating

Pull-in/drop-out voltage, typ.

Input frequency

Status indicator

Protective circuit

Load side

Solid-state type

Rated switching voltage Continuous current

Min. switching current

Max. switching current Voltage drop at max. load

Leakage current

Short-circuit-proof / Protective circuit, load side

Switch-on delay / Switch-off delay

Output voltage frequency range

Pulse load, max, current

Load category

Load limit integral (I^2t) <10 ms

General data

Ambient temperature (operational)

Storage temperature

Humidity Approvals

Standards

Insulation coordinates

Impulse withstand voltage

Clearance and creepage distances for control side - load side

Overvoltage category

Pollution degree

Dimensions

Clamping range (rated / min. / max.) control side

Clamping range (rated / min. / max.) load side

Depth x width x height Note

mm

Ordering data

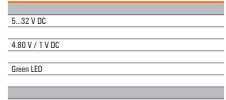
/ 0.75 / 2.5 /2.5/6 102.5 / 54 / 110

Screw connection

Accessories

Note

Note



Thyristor (zero-cross switch)
42600 V AC +10% -15%
20 A
250 mA
25 A
5 mA
No / Integrated varistor
≤ 10 ms / ≤ 10 ms

45...65 Hz 600 A (10 ms, non-recurrent) AC 51, AC 53 1800 A²s -40 °C...80 °C -40 °C...100 °C

95% relative humidity, non-condensing @ 40°C

CE; cULus

6 kV (1.2/50 μs)



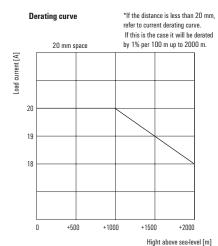


Accessories and dimensioned drawings: refer to the Power Solid-state Relay Accessories page.

Derating Curve Load Current(A) 30mm spacing ·UL 10mm spacing 20 0mm spacing 10 40 50

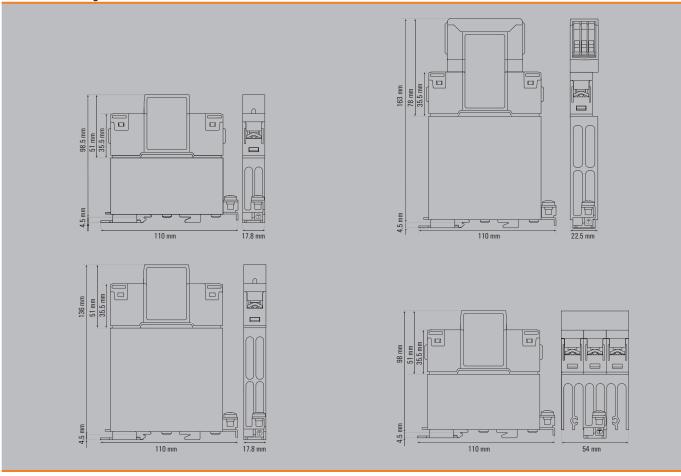


Ambient Temperature (°C)



Weidmüller 🏖 3043770000

Dimensioned drawing for PSSR



Uninsulated screwdriver

Weidmüller SoftFinish screwdriver for general uses.

Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, matt chrome finish.



Screwdriver for the connections on the input side

SD S

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish® grip

туре	Size / AF	A	В	U	Oluel No.
SDS 0 6X3 5X100		0.6	3.5	100	2749340000
000 0.0/0.0/100		0.0	0.0	100	2143340000



Screwdriver for the connections on the output side

SDK PZ

Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, ouput to ISO 8764/1-PZ, ChromTop tip, SoftFinish® grip

SDK PZ2 X 100 2 100 **2749450000**



Weidmüller 3€ 0.145

PWR high-power relay 1 NO AC/DC coil

• Max. load current: 30 A



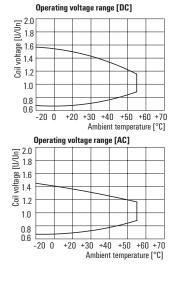
1NO DC AC AC O 1 34 max

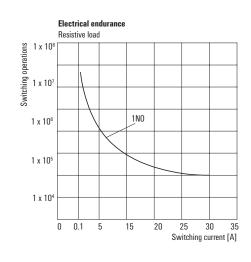
Technical data

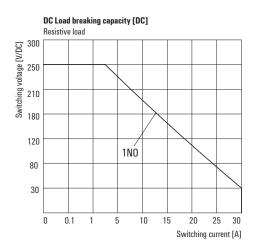
Load side	
Rated switching voltage / Continuous current	277 V AC / 30 A
Max. switching voltage, AC	250 V
Inrush current	150 A / 50 ms
Min. switching power	100 mA @ 12 V
Contact type	1 NO contact (AgSnO)
Mechanical service life	
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	CE; cURus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3

Dimensions		Screw connection	
Depth x width x height	mm	55 / 50.5 / 34	
Note			

Applications

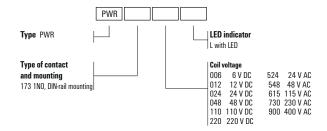






C.146 Weidmüller ₹ 3043770000

PWR high-power relay 1 NO AC/DC coil



Ordering data
Control side
Rated control voltage
Rated current AC / DC

Power rating
Status indicator

12 V DC 1 NO	
12 V DC	
/ 160 mA	
1.9 W	
Green LED	

24 V DC 1 NO	
24 V DC	
/ 79.2 mA	
1.9 W	
Green LED	

48 V DC 1 NO
48 V DC
/ 39.3 mA
1.9 W
Green LED

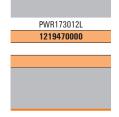
110 V DC 1 NO	
110 V DC	
/ 17.3 mA	
1.9 W	
Green LED	

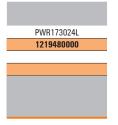
	220 V DC 1 NO				
•	220 V DC				
•	/ 8.7 mA				
	1.9 W				
-	Green LED				

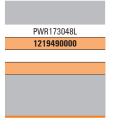
Ordering data

Terminal rail mounting Type
Order No.
Type
Order No.

Note









PWR173220L	
1219520000	

Ordering data
Control side
Rated control voltage
Rated current AC / DC

Power rating
Status indicator

24 V AC 1 NO
24 V AC
87.3 mA /
2.5 VA
Green LED

48 V AC 1 NO	
48 V AC	
43.6 mA /	
2.5 VA	
Green LED	

115 V AC	
22.1 mA/	
2.5 VA	
Green LED	_

115 V AC 1 NO

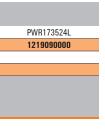
230 V AC 1 NO
230 V AC
11 mA /
2.5 VA
Green LED

	380 V AC 1 NO
Ī	
	380 V AC
	6.1 mA /
	2.5 VA
	Green LED

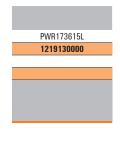
Ordering data

Terminal rail mounting Type
Order No.
Type
Order No.

Note



PWR173548L
1219120000



PWR173730L
1219140000



PWR high-power relay 2 NO AC/DC coil

• Max. load current: 25 A

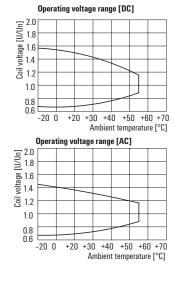


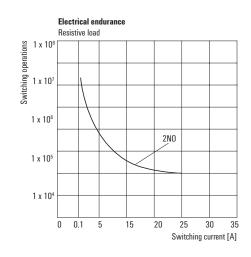
Technical data

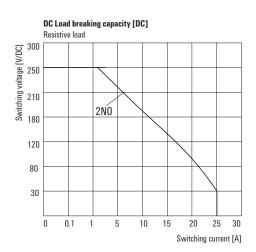
Load side	
Rated switching voltage / Continuous current	277 V AC / 25 A
Max. switching voltage, AC	
Inrush current	120 A / 50 ms
Min. switching power	100 mA @ 12 V
Contact type	2 NO contact (AgSnO)
Mechanical service life	
Max. switching frequency at rated load	0.1 Hz
General data	
Ambient temperature (operational)	-25 °C55 °C
Storage temperature	-25 °C55 °C
Humidity	3585 % rel. humidity, no condensation
Approvals	CE; cURus; UKCA
Insulation coordinates	
Rated voltage	250 V
Impulse withstand voltage	6 kV (1.2/50 μs)
Dielectric strength for control side - load side	4 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2 kV _{eff} / 1 min
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	≥ 5.5 mm
Overvoltage category	III
Pollution degree	3

Dimensions		Screw connection
Depth x width x height	mm	55 / 50.5 / 34
Note		

Applications

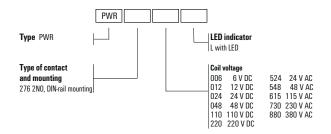






C.148 *Weidmüller* **₹** 3043770000

PWR high-power relay 2 NO AC/DC coil



Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

12 V DC 2 NO	
12 V DC	
/ 160 mA	
1.9 W	
Green LED	

24 V DC 2 NO	
24 V DC	
/ 79.2 mA	
1.9 W	
Green LED	

48 V DC 2	NO
48 V DC	
/ 39.3 m	A
1.9 W	
Green LEI	<u> </u>

110 V DC 2 NO
110 V DC / 17.3 mA
1.9 W Green LED

220 V DC 2 NO
220 V DC
/ 8.7 mA
1.9 W
Green LED

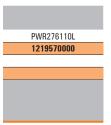
Ordering data Terminal rail mounting Type Order No. Туре Order No.

Note

	PWR	2760	12L	
	1219	95400	000	







PWR276220L	
1219580000	

Ordering data Control side Rated control voltage Rated current AC / DC Power rating Status indicator

24 V AC 2 NO	
24 V AC	
87.3 mA/	
2.5 VA	
Green LED	

48 V AC 2 NO
48 V AC
43.6 mA /
2.5 VA
Green LED

115 V AC 2 NU	
115 V AC	
22.1 mA/	
2.5 VA	
Green LED	

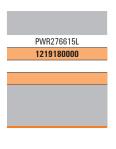
230 V AC 2 NO			
230 V AC			
11 mA /			
2.5 VA			
Green LED			

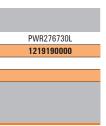
	380 V AC 2 NO
ı	
	380 V AC
	6.1 mA /
	2.5 VA
	Green LED

Ordering data Terminal rail mounting Type Order No. Type Order No. Note

PWR276524L	
1219160000	
	Ī

PWR276548L	
1219170000	





PWR276880L 1219220000

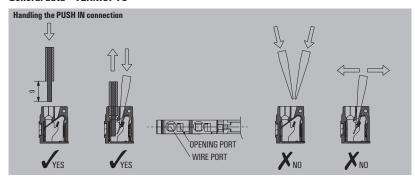
TERMOPTO - Accessories



Plug-in cross-connection

Туре	No. of poles	Qty.	Order No.
orange			
ZQV 4N/2	2	60	1527930000
ZQV 4N/3	3	60	1527940000
ZQV 4N/4	4	60	1527970000
ZQV 4N/10	10	20	1528090000
ZQV 4N/20	20	20	2883800000
red			
ZQV 4N/2 RD	2	60	2460450000
ZQV 4N/3 RD	3	60	2460810000
ZQV 4N/4 RD	4	60	2460800000
ZQV 4N/10 RD	10	20	2460740000
blue			
ZQV 4N/2 BL	2	60	1528040000
ZQV 4N/3 BL	3	60	1528080000
ZQV 4N/4 BL	4	60	1528120000
ZQV 4N/10 BL	10	20	1528230000
black			
ZQV 4N/2 BK	2	60	2810840000
ZQV 4N/3 BK	3	60	2810880000
ZQV 4N/4 BK	4	60	2810890000
ZQV 4N/10 BK	10	20	2810830000
ZQV 4N/20 BK	20	20	2810870000

General data - TERMOPTO



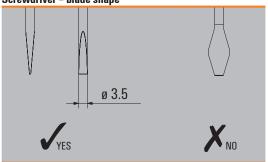
Technical data

		PUSH IN	Screw-
Conductor		connection	connection
Solid H07V-U	mm ²	0.51.5	0.52.5
Stranded H07V-K	mm ²	0.51.5	0.52.5
"f" with wire end ferrules to DIN 46228-1	mm ²	0.51.5	0.51.5
"f" with wire end ferrules with plastic collar	mm ²	0.51.5	0.51.5
Max. clamping range	mm ²	0.131.5	0.132.5
Plug gauge to IEC 60947-1	Size	A 2	A 3
General technical data			
Nominal torque	Nm	-	0.6
Continuous current for 2-pole cross-connection	Α	10	10
Continuous current for multi-pole cross-connection	Α	10	10
Stripping length	mm	10	9
Ingress protection class		IP 20	IP 20
Housing material		Wemid	Wemid
UL94 flammability rating		V-0	V-0
Nominal current	Α	6	6
Nominal voltage	V	250	250

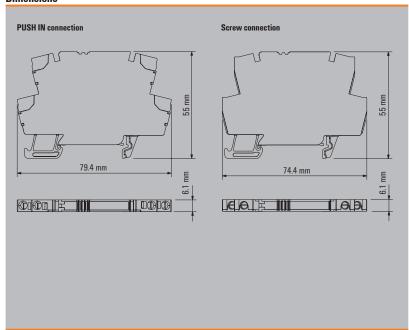
Other accessories

Type Markers		Qty.	Order No.
IVIarkers			
WS 12/6	12 x 6 mm	600	1609900000
Screwdriver			
SDS 0.6X3.5X100		1	2749340000

Screwdriver – blade shape



Dimensions



Weidmüller 🛣 3043770000 C.150

MICROOPTO - Accessories



Plug-in cross-connection

Туре	No. of poles	Qty.	Order No.
orange			
ZQV 4N/2	2	60	1527930000
ZQV 4N/3	3	60	1527940000
ZQV 4N/4	4	60	1527970000
ZQV 4N/10	10	20	1528090000
ZQV 4N/20	20	20	2883800000
red			
ZQV 4N/2 RD	2	60	2460450000
ZQV 4N/3 RD	3	60	2460810000
ZQV 4N/4 RD	4	60	2460800000
ZQV 4N/10 RD	10	20	2460740000
blue			
ZQV 4N/2 BL	2	60	1528040000
ZQV 4N/3 BL	3	60	1528080000
ZQV 4N/4 BL	4	60	1528120000
ZQV 4N/10 BL	10	20	1528230000
black			
ZQV 4N/2 BK	2	60	2810840000
ZQV 4N/3 BK	3	60	2810880000
ZQV 4N/4 BK	4	60	2810890000
ZQV 4N/10 BK	10	20	2810830000
ZQV 4N/20 BK	20	20	2810870000

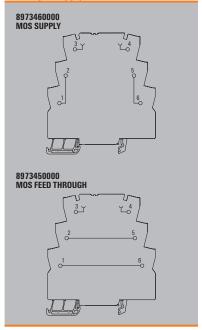
Technical data

		Screw-
Conductor		connection
Solid H07V-U	mm ²	0.5 4.0
Stranded H07V-K	mm ²	0.5 2.5
"f" with wire end ferrules to DIN 46228-1	mm ²	0.5 1.5
"f" with wire end ferrules with plastic collar	mm ²	0.5 1.5
Max. clamping range	mm ²	0.13 4.0
Plug gauge to IEC 60947-1	Size	A 3
General technical data		
Nominal torque	Nm	0.6
Continuous current for 2-pole cross-connection	Α	10
Continuous current for multi-pole cross-connection	Α	10
Stripping length	mm	7
Ingress protection class		IP 20
Housing material		Wemid
UL 94 flammability rating		V-0
Nominal current	Α	6
Nominal voltage	V	250

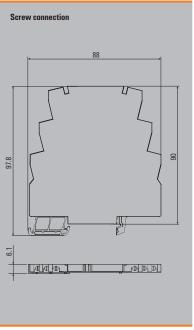
Other accessories

Office accessories			
Туре		Qty.	Order No.
Supply terminals			
MOS SUPPLY		1	8973460000
MOS FEED THROUGH		1	8973450000
Markers			
WS 12/6	12 x 6 mm	600	1609900000
Screwdriver			
SDS 0.6X3.5X100		1	2749340000
Cross-connector for plugging into the clamping point			
QB 75/6.2/15		10	0535200000
Coloured insulating profi	le for QB		
ISPF QB75 black		10	0526700000
ISPF QB75 blue		10	0526780000
ISPF QB75 red		10	0526760000
End bracket			
WEW 35/2		50	1061210000

Drawings: Supply terminals



Dimensions



3043770000 **Weidmüller 3 C.151**

C.152 Weidmüller ₹ 3043770000

V

Service and support

Service and support	Service connects - worldwide	V.2
	Engineering services and customised products	V.3
	easyConnect - Your Industrial Service Platform	V.4
	Support Center	V.6
	Additional support services	V.7
	Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering	V.8
	Your digital ordering options at Weidmüller	V.10

3043770000 **Weidmüller** ₹ v.1

Our expertise for your requirements

Service connects - worldwide



Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity.

Our personal support answers all questions reliably and expertly. During planning, installation or operation our service and support offer is your best companion.

In short: Weidmüller's global service combines our expertise with your requirements.





Your way to our service www.weidmueller.com/service

Weidmüller ₹ 3043770000

Service and support

Engineering services and customised products

Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.



Consulting and engineering

The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, prefitted mounting rails or complete small cabinets – our application centres provide a highly qualified custom-made engineering and production service.



Connectivity Consulting

Increase your competitiveness - supported by our experts
Our drive is to optimise your competitiveness. That's why our team of experts supports you in significantly increasing your efficiency in electrical machine design and control cabinet construction. With proven products and services from the Weidmüller portfolio – and with the experience gained from over 300 projects worldwide.



Assembled terminal rails - Flexibly designed to suit your requirements

Your processes in panel building have to be fast, flexible and productive. This is the only way you can cut your costs and increase efficiency. Depending on the application in question, you will have different requirements with respect to the engineering service, delivery speed and flexibility to be provided.



Modified and assembled enclosures - Competitive advantages included

To compete internationally, your plants need to satisfy high standards of safety, quality and performance. The smart combination of consultation, application expertise and industry know-how is our key to finding a custom-fit solution for your application. Reduce costs and increase efficiency.



Fast Delivery Service - Your ideas deserve a quick realisation

Obtain offers 24/7 and within minutes, including directly orderable article numbers with our Fast Delivery Service. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes. Dispatch your orders in 5 days. Assemble individual terminal strips and enclosures from batch size 1!

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Your ticket to the world of digital service

easyConnect - Your Industrial Service Platform



Our cloud-based platform is your ticket to the world of digital services from Weidmüller, and the intuitive and future-proof tool for your way to the Industrial IoT. Realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services.

As an open, modular and perfectly integrable system, the platform is your enabler for a wide range of use cases. Increase your efficiency and unleash your full innovation potential with easyConnect.





Interested in using easyConnect?

Learn how to get started with easyConnect step-by-step.

www.weidmueller.com/easyconnect

V.4 Weidmüller ₹ 3043770000

Service and support

Why should you use easyConnect?

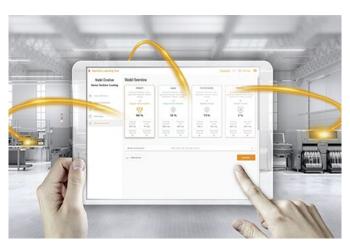
- You want to enter your digital transformation step-bystep?
- You want to make the step into Industrial IOT, but have no or little IT expertise?
- You want to use your digital data for smart & scalable services?
- You want to offer digital services (such as customised dashboard) to your customers?
- You want to improve your service offering and efficiency, e.g. through remote access?
- You feel Weidmüller's digital services are interesting, but you have "your cloud" already?



Weidmüller comes up with the solution: easyConnect, the new digitalisation platform. It bundles Weidmüller's digital services at one place in the cloud and connects them with various Weidmüller devices.

With easyConnect you start digitalising your application step-by-step without ballast in a secure way.

The following services are initially available on easyConnect:



Device management

Adding and managing cloud-connected devices is typically the first step in any Industrial IoT use case.

Asset management

The asset management service is a modelling tool that allows users to model their assets and processes and link them to relevant time series data.

Remote access (u-link)

u-link guarantees a quick and secure access to machines and plants while also allowing for efficient management.

Data visualisation

easyConnect data visualisation services enable users to view, monitor and display live and historical data.

AutoML

With Weidmüller Industrial AutoML, you can optimize operations, increase product quality and develop new business models by benefiting from advanced analytics.

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Expand the possibilities of our products

Our Support Center provides you with comprehensive, clear and personal assistance



Receive fast and intuitive support to get the most out of our products in your application. In our new Support Center you can search or navigate to the many application notes, product information, video tutorials or software downloads of our products.

- · Everything at a glance One central support hub, where all relevant information is available
- Powerful search Provides filter functions for various types of information and products
- Different views and navigations Content provided in views product information, engineering support or software downloads
- More than 170,000 downloads Application notes, video tutorials, templates and examples, user documentation, engineering data, ...
- Personal contact Direct access to your personal technical contact in your country



Explore the world of our new Support Center

support.weidmueller.com

Weidmüller ₹2 3043770000

Additional support services



Training and Webinars

Stay tuned in a world that is accelerating. In our entertaining interactive webinars, we offer you the opportunity to learn about new products and technology topics and to interact with our experts.



Repairs and replacement parts

We offer repair and components for our Workplace Solutions as well as assistance for other Weidmüller products. Find out how our experts can help you with your repair request.



Security advisory board

Our Product Security Incident Response Team (PSIRT) continuously informs you about possible securityrelated vulnerabilities of our products.



Engineering data

For the quick integration of our products into your design, there are a lot of digital product data for engineering systems like EPLAN, Zuken E3.series, WSCAD and many others available for download.



Product change notifications

Technical modifications of our products always available online.



Technical product catalogues

Technical data for our entire program in Industrial Connectivity for download in PDF-format.

V

3043770000 **Weidmüller № 1.7**

From the idea to the finished solution

Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering

Digital engineering can be so easy - with the Weidmüller Configurator!

It's a **free to use** software application to easily configure industrial solutions. It features more than **12,000 articles** from multiple product families including rail-mounted components, industrial and excertified enclosures, Heavy Duty Connectors, remote I/O-systems and PCB connectors.

Unleash the full power of digital engineering:

Our application wizards help you choose the right articles.

Place, mark or modify them to your needs and get your solution **visualized in 3D** – what you see is what you get!

Our promise: Speed up your solution planning process by up to 70%!

Your benefits:

- **Proven configuration designs in real 3D:** The plausibility and collision check with the complete digital documentation ensures that you can rely 100% on your configuration.
- **Seamless E-CAD Roundtrip:** Interfaces enable the simple exchange of product data between the WMC and all common engineering tools, such as Zuken E3 or EPLAN Electric P8.
- Sample Service & Fast Delivery Service: to support your design-in process, we offer a 3-day sample service for many products. Inquire them directly online for free!
 You want your solution right away? Our Fast Delivery Service guarantees delivery of individually assembled terminal strips or enclosures within a few days.

Get started online now!

The Weidmüller Configurator makes solution planning easy. Visit our website for more information, tutorials and download it for free:





www.weidmueller.com/wmc



or register on **easyconnect.weidmueller.com** and use it online.

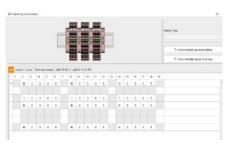
Weidmüller ₹2 3043770000





Wizards:

Design complete applications within few clicks – even without detailed product knowledge – for signal wiring, load monitoring, instrument transformers, enclosures, remote I/O-systems and many more.



Assistants:

Finalize your solutions with supporting assistants to add cross-connectors, markers or colors and verify the faultlessness. Automatic modes save valuable time!



1-click documentation:

Get assembly drawings for production – only 1 click. Bill of material – only 1 click. The complete solution documentation including all component data sheets – you 're right, only 1 click!

3043770000 **Weidmüller № v.9**

Digital ordering options

Your digital ordering options at Weidmüller

Find and easily select the products you need, with convenient ordering: as your Partner in Industrial Connectivity, we know what counts in purchasing. That is why we offer you a variety of options for ordering products from us and optimising your purchasing processes to meet your individual requirements and your workflow. The choice is yours.

Order via the Weidmüller eShop

Our eShop offers you access to the complete Weidmüller product range around the clock – directly from a PC, tablet, or smartphone. The intuitive user guidance supports you as you select from over 50,000 products. Technical data, prices, and availabilities are available at any time. The shopping basket with check out function lets you place an order in seconds. Convenient additional functions like CSV upload, order history, reports, or custom order templates make your ordering processes even more efficient.



Order via the OCI interface

The Open Catalogue Interface (OCI) facilitates the exchange of data between your enterprise resource planning system and our eShop. This means that our eShop is integrated into your system via an OCI interface, so you have access to our complete product catalogue from your enterprise resource planning system. You can filter and select products, place them in your shopping basket and place direct orders without changing your software application. The open OCI standard is supported worldwide from a variety of software providers.



Order via the EDI interface

Our Electronic Data Interchange (EDI) also offers you the option of ordering our products directly from your enterprise resource planning system. All order data is transmitted automatically to our system and processed immediately. Orders, order confirmations, invoices, and delivery notices are transmitted lightning fast. This helps you make your purchasing processes even more efficient.





We will be glad to advise you on which solutions are suitable for you and how implementation is possible. **Get in touch with us**

www.weidmueller.com/digital-order

Weidmüller ₹ 3043770000

Technical appendix/Glossary

Technical appendix/Glossary

Relay modules and solid-state relays – Introduction	W.2
Relay modules and solid-state relays – Comparison	W.4
Relay modules - Overview	W.6
Relay modules - Switching loads	W.7
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Solid-state relays - Switching loads	W.10
Protective circuits for outputs	W.12
Glossary: Relay modules and Solid-state relays	W.14



3043770000 **Weidmüller ₹ W**.1

Relay modules and solid-state relays - Introduction

Our relay modules, solid-state relays and additional value added services are hugely beneficial for our customers: space-saving installation, control cabinet optimisation, reduced wiring effort, optimal markability and cost reductions. Supplemented by our complete portfolio, Weidmüller offers everything from a single source. Over the following pages, we would like to explain the world of relay modules and solid-state relays and provide technical explanations of the features in the data sheet.

There are three main applications for relay modules and solid-state relays, which we will explain briefly below:

Potential isolation

Many applications require that the control circuit is electrically isolated from the load circuit. This primarily protects the control level from interference from the field, such as:

- Interference currents e.g. from earth and ground loops
- · Interference pulses e.g. from inductive effects of transients

Switching amplification/signal adaptation

The separation of the load and control circuits, in conjunction with the associated options for configuring both circuits separately, means that relay modules and solid-state relays are often used for switching amplification and signal conditioning purposes.

This allows the different voltage potentials of signals from the control and load circuits to be aligned.

They are also used to amplify current values that exceed the load capacity of the control unit, e.g. a PLC output.

Contact multiplication

With applications, it is often necessary to control several load circuits simultaneously with one control signal. With electromechanical relays, this can be achieved with multi-channel variants, whereby up to four load circuits can be switched simultaneously with one control signal, e.g. using a 4 changeover output.

In addition, multi-channel relays can be used, whereby one of the channels is used to switch the load and another channel is used to return a feedback signal on the switching status of the output to the upstream control unit.



N.2 Weidmüller № 3043770000

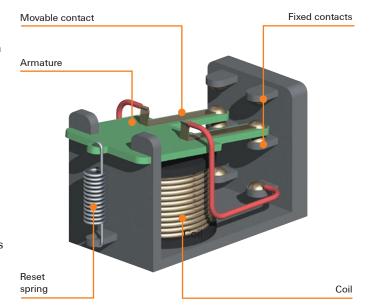
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3043770000 **Weidmüller** ₹ **W.3**

Relay modules and solid-state relays - Comparison

Advantages of electromechanical relay modules (EMR)

- AC and DC operation in load circuit possible
 Versatile (advantage as interface between different plant equipment)
- No leakage current in the load circuit
 A semi-conductor does not achieve 100 % isolation
- Low residual voltage in the load circuit Low voltage drop
- Significantly lower power loss in the load circuit
 In contrast to the semiconductor in the opto
 module, there is very little electrical resistance in
 the contacts of the electromechanical relay, which
 can lead to a rise in temperature when under load.
 Therefore, heat sinks are not required.
- Contact multiplication possible
 A single control signal can switch several load circuits
- Control circuit insensitive to voltage peaks
 The switch-on power of the magnetic coil prevents unintentional switch-on due to voltage couplings.





W.4 Weidmüller ₹ 3043770000

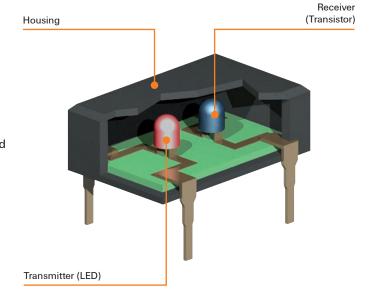
Depending on the requirements, the choice between electromechanical and solid-state relays is made based on the different advantages that the different versions offer:

Advantages of solid-state relays (SSR)

- Longer service life and increased reliability
 No moving parts or wear on the contacts
- Small dimensions
 Saves space on the PCB and mounting rail
- Low control power
 An LED is activated no mechanical parts are moved
- Fast response times
 Fast switching, which allows high frequencies to be achieved
- No contact bounce Reduces switching delays
- No switching noise

 Suitable for use in noise-sensitive environments
- Not susceptible to shock and vibration Prevents unwanted switching statuses
- No electromagnetic radiation due to switching sparks or coils

No interference of adjacent assemblies or electronics components





3043770000 **Weidmüller** ₹ W.5

Relay modules - Overview

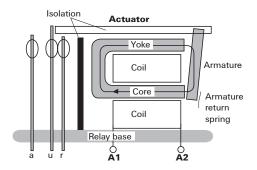
Historical background

The term 'relay' was originally used for a station where stagecoaches were able to change their tired horses for fresh ones. The term 'relay' was given a totally different meaning by the English physicist Charles Wheatstone (1802–1875). In Wheatstone's times, departing trains were advised of by a bell ringing at the next railway station up the line.

This was achieved by connecting a battery in the first station to a bell in the second. However, as the railway stations were generally several kilometres apart the power arriving at the second station was often insufficient to ring the bell. Wheatstone invented a switchgear apparatus that was installed at the second railway station. This continued to function even with low power supply levels. The switchgear apparatus switched a second electrical circuit that actuated the bell. This was the birth of the electromagnetic relay.

How a relay functions

A relay is an electromagnetic switch comprising of two galvanically isolated circuits. Firstly the control circuit and secondly the open circuit with the normally open contact. As soon as the control circuit is energised, the coil creates a magnetic field in the core/yoke and attracts the armature. The actuator now actuates the switch at the output, the normally open contact (make contact) closes and the normally closed contact (break contact) opens. When the control circuit is turned off, the magnetic field diminishes and the return spring returns the armature to its initial position. The actuator moves the normally open (make contact) back to its normal position, the normally open contact opens, the normally closed contact (break contact) closes.



A relay therefore offers the option of switching high loads with low power, such as battery voltages, and acting as a switching amplifier. Thanks to the galvanic isolation between input and output, a relay is also suitable for providing isolation in the event of potential differences between the control and operating circuits. If a relay also has several working contacts, it can also be used as a contact multiplier.

From relay to relay module

There are two alternative methods that make a relay module suitable for use in industrial applications: mounting onto a PCB – in combination with the corresponding assembly techniques and circuitry – or plugging onto a specially designed relay socket.

Generally, the design and rating data determine if a relay module is or is not suitable for a particular application.

For example, relay modules with plugged on relays are only partly suitable for use in applications subjected to heavy vibrations. In this case, relay modules with soldered relays should be preferred. Low, compact designs such as those provided by the RIDERSERIES are utilised in small consumer units where the overall available height is limited. Conversely, the compact design of the TERMSERIES helps to save space in electrical cabinets.

W

Weidmüller ₹2 3043770000

Relay modules – Switching loads

Electromechanical relays are a varied and cost-effective solution for a wide range of switching processes. They can be used for level and power adaptation and form interfaces between control, signalling and regulating equipment and peripherals. In spite of rising raw material prices, they are still very inexpensive and can be easily integrated into a wide variety of circuit types.

Relay modules from Weidmüller are extremely reliable, durable, and available in many different designs. The diversity of their applications in the various industrial sectors makes it necessary to select a suitable relay for each specific application. The following applies: Due to their design, relay modules are subject to mechanical and electrical wear, which must be taken into account when relay circuits are set up. Electrical consumers always form a mixed load with resistive, capacitive and inductive components, although consumers with a large inductive component are predominantly used in practice. These include contactors, solenoid valves, motors etc. We will take a closer look at these areas of application over the following pages.

Switching of large AC loads

If large AC loads are switched, the relay can in principal be operated until the specified maximum value of switching voltage, current, or power is reached. However, when switching AC loads, the switching voltage has a much smaller influence on the service life of the relay contact than the switching current. The reason for this is that the arc that occurs when the relay is switched off usually extinguish automatically at the next zero crossing of the load current. In applications with inductive loads, an effective protective circuit should be provided, as otherwise a significantly reduced service life can be expected.

Switching of large DC loads

Relays can only switch off relatively small direct currents because the zero crossing for extinguishing the arc is missing here. The maximum direct current value is also dependent on the switching voltage as well as on design conditions such as contact gap and contact opening speed. Corresponding current and voltage values are documented in load limit curves.

With undamped inductive DC loads, these values are lower because the energy stored in the inductance can ignite an arc that carries the current through the open contacts. The resulting arc significantly reduces the service life compared to an resistive load.

An effective contact protection circuit can increase the service life of the contacts by 5 to 10 times compared to inductive loads that are not or unfavorably protected. Type 1N4007 freewheeling diodes are preferably suitable for this purpose.

Switching of very low power circuits

Low power circuits with values below 30 V/10 mA are mainly used in applications where signals has to be transmitted to control inputs, e.g. to a PLC. Such low loads do not produce a sufficient arc at the contacts.

However, this arc has two important functions: On the one hand, it ensures continuous cleaning of the contacts; on the other hand, it can penetrate non-conductive foreign layers at the contacts. Such foreign layers are usually created by oxidation or sulfidation of common contact materials such as silver (Ag), silver-nickel (AgNi), or silver-tin oxide (AgSnO). The foreign layers can increase the contact resistance after a short time to such an extent that reliable switching of low loads is no longer possible.

For these reasons, gold (Au) is used as the contact material for relays switching small loads. It has proven itself due to its low and constant contact resistance and its resistance to ambient air containing sulphur.

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Solid-state relays – Overview

Solid-state relays - functionality

Solid-state relays are electronic components (switching elements) that are used to switch a load circuit via a control circuit. First of all, they allow applications with varying power ratings to be switched with relatively minimal switching currents. Secondly, they provide galvanic isolation for the switching and load levels in order to protect components in the event of malfunctions.

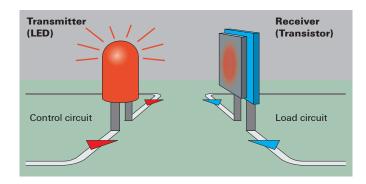
In contrast to electromechanical relays, solid-state relays do not have any mechanical parts prone to wear. The core element of a solid-state relay is an optocoupler. In an optocoupler, a light signal is triggered in the control circuit for the switching process via an LED, which causes a light-sensitive semiconductor receiver to close a connected load circuit to switch on the downstream switching amplifier. The transmitter (LED) and receiver (e.g. a phototransistor) of the optocoupler are embedded in a light-conducting plastic material and surrounded by a light-proof casing that protects against outside influences.

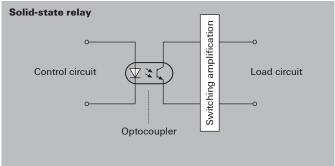
Switching amplification is required because optocoupler can only switch comparatively small voltages and currents. The combination of an optocoupler with the switching amplification at the output means that this is now called a solid-state relay.

The output of a solid-state relay

A voltage range is usually specified for the nominal switching voltage of solid-state relays (e.g. 5 ...48 V DC), which must neither be exceeded nor fallen short of. The same applies to the continuous current. Frequently exceeding this value can lead to premature wear and to destruction of the semiconductor. Short surge voltages (voltage peaks) are eliminated by appropriate protective components such as diodes or varistors.

Depending on the output circuit with the appropriate amplifier semiconductor, either AC or DC loads can be connected





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DC output:

For the control of DC voltage switching and control devices, a switching amplifier for switching the DC voltage is connected downstream of the optocoupler (bipolar transistor or MOSFET). For DC outputs, the specified polarity must be observed.

2-pole DC outputs can be used as both positive and negative switching outputs unless otherwise specified. The abbreviations NPN (negative switching output) or PNP (positive switching output) are often used for these terms.

With the 3-pole DC connection, the output circuit is provided with an auxiliary voltage which is used for more precise control of the amplifier transistor.

Some applications also require this auxiliary voltage for very fast switching, e.g. of very high frequencies. These outputs are often only positive switching (PNP) or negative switching (NPN) outputs and cannot do both. This is then specified in the instruction sheet or in the data sheet for the respective product.



Bipolar transistor (for DC outputs)

For use at low currents (\leq 0.5 A) due to having a higher power loss than MOSFETs. However, cheaper than MOSFETs.



MOSFET (for DC outputs)

For use with load currents.

The low contact resistance of the MOSFET generates only very low power loss. Furthermore, a MOSFET output has only very small leakage currents (< 10 μ A).

AC output:

For the control of AC switching and control devices, a switching amplifier for switching the AC voltage is connected downstream of the optocoupler (TRIAC or thyristor).

Switch-on behaviour of an AC output:

Most solid state relays with triac or thyristor outputs are zero-voltage switching outputs. This means that once a control signal has been applied at the input, they switch on at the next zero crossing of the AC voltage at the output. However, this behaviour makes these outputs relatively slow in their switch-on behaviour (up to 10 ms delay time at 50 Hz mains frequency of the switched voltage).

To improve this, some AC outputs have an instantaneous switching output. These outputs switch on as soon as possible after a control signal is applied to the input (<0.1 ms). However, depending on the phase position, this can cause high current peaks when switching on, and can cause the electromagnetic interference emissions in the system to increase

Switch-off behaviour of an AC output:

Semiconductor outputs for AC voltages with triac or thyristor all switch off at the next zero crossing of the output current once the control signal has been removed at the input. As a result, they cannot be used for switching DC voltages.



Thyristor (for AC outputs)

For use with load currents.

The function of a thyristor is comparable to that of a one-way diode. For alternating currents, an anti-parallel connection of two thyristors is therefore used.



Triac (for AC outputs)

For use with load currents.

A TRIAC combines the functional principle of anti-parallel connected thyristors in a single component.

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Solid-state relays – Switching loads

One particular challenge for the circuits in the load circuit of optocouplers and solid-state relays is posed by the different load types of the possible applications (resistive, inductive, capacitive load). Depending on the application, it is important to be aware of the effects that these loads have on the module being used, and how an appropriate protective device needs to be designed.

In general, it must be ensured that the power loss at the amplifier semiconductor does not exceed a permissible limit value over a long period of time. This would lead to overheating and finally to the destruction of the component.

Switching resistive loads

Because the current strength in the load circuit and the voltage across the amplifier semiconductor are inversely proportional to each other with resistive loads, these types of loads do not usually pose a problem. In this case, it is sufficient to observe the maximum current and voltage strengths of the modules.

One particular case is the switching of incandescent bulbs. Due to the low cold resistance, overcurrents of 10 to 20 times the operating current can occur when switching on. The components must be designed for these possible overloads, which correspond to the effect with a capacitive load.

Switching capacitive loads

Capacitive loads occur when there is a capacitor in the load circuit. This acts as a short circuit at the moment of switch-on, causing a high inrush current.

Compared to many other electromechanical relay modules, an amplifier semiconductor is more robust against very short current peaks (< 10 ms) when switching on capacitive loads, because it does not contain any mechanical parts that can weld together. Inrush current peaks that are too high, too steep or too long can still lead to the destruction of the amplifier semiconductor.

Switching inductive loads

With inductive loads, which are mainly present when coils are used in the load circuit, the problem arises when switching off. Due to the current flow in the coil, a magnetic field builds up which then suddenly collapses and generates a high induction voltage. An amplifier semiconductor needs to be protected from these voltage peaks, otherwise it will be destroyed. Many solid-state relays are equipped with protective suppressor circuits at the output, but these often only provide protection against very small inductive loads. Therefore, when switching inductive loads with solid-state relays, it is highly recommended to have an additional external protective suppressor circuit parallel to the load. This is especially important if inductive loads are to be switched with a frequency faster than 0.5 Hz. When switching inductive loads faster than 5 Hz, specially designed solidstate relays should be used.



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Effective protection of outputs of relay modules and solid-state relays

Selection criteria for the protective suppressor circuit of inductive loads

In our selection tables we specified the maximum recommended switching currents for inductive loads without protective circuits. If you want to increase the service life of the contacts, you must equip the relay contacts with an effective protective circuit.

The protective circuit on the coil side of a relay module can, for example, be implemented with an integrated or additionally pluggable freewheeling diode. However, this only protects the controlling periphery from the voltage peaks that occur in the coil of the relay module. The relay contact is usually not sufficiently protected against the voltage peaks of the inductive load to be switched, although with optimum dimensioning almost the same values for switching capacity or switching cycles can be achieved as with resistive load.

The largest reduction factor for the service life of a relay contact is the arc generated during switching off inductive loads. It is caused during the switching process by the energy stored in the coil and can destroy the contact through material evaporation and material migration.

With DC voltage and standing arc, the relay can even fail during the first switching cycle. Voltage peaks caused by electric arcs can reach values up to several 1,000 volts.

A protective circuits must be used to suppress the formation of electric arcs.

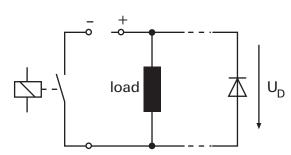
In the following, we will explain the correct installation of the protective circuit and the effectiveness of the most common types of protective circuit. There are various ways to install an effective protective circuits. For example, the protective circuit can be mounted either parallel to the relay contact or parallel to the load.

However, the protective measure should always apply directly to the source of the fault. Therefore, the protective circuit of the load is preferable to the circuit of the contact.

Advantages of a protective circuit at the load:

- When the contact is open, the load is still galvanically isolated from the operating voltage
- The switch-off peaks of the load cannot be coupled into the control lines running in parallel

Free-wheeling diodes



Free-wheeling diodes are used to protect against overvoltages caused by self-induction when an inductive DC voltage load is switched off (e.g. solenoid valves or electric motors). They ensure that the voltage peaks that occur are reduced to the value of the diode forward voltage (UD). However, this leads to a delay in the voltage drop and thus in the switch-off process of the load.

Advantage:

- · Uncritical dimensioning
- · Very positive effect on the service life of the contacts

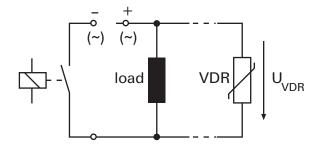
Disadvantage:

- Significantly extended switch off process
- Only suitable for DC voltage



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Varistors



The functional principle of varistors is also based on breakdown voltages (UVDR). High energies can be dissipated, but this causes the component to aging. Therefore, the breakdown voltage is reduced over time and the leakage current is increased.

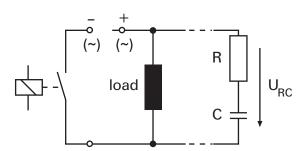
Advantage:

- Uncritical dimensioning
- Suitable for DC and AC voltage
- Slightly extended switch off process

Disadvantage:

- Complex and expensive with increasing power
- Low effect on the service life of the contact

RC modules



With RC modules, voltage peaks are compensated via a capacitor. Thanks to its special characteristics during charging and discharging the interference pulses are already filtered out during the voltage rise and not only when the breakdown voltage (URC) is reached.

Advantage:

- Suitable for DC and AC voltage
- Slightly extended switch off process

Disadvantage:

- Exact dimensioning required
- High inrush current
- Low effect on the service life of the contact



Glossary: Relay modules and Solid-state relays

			for EMR	for SSR
A				
AC switching capacity (resistive), max.	in VA. When sw capacity The redu	or deproduct for resistive loads from switching current and switching voltage witching inductive loads, it is recommended to reduce the switching in order to achieve the longest possible service life. Conception results from the arc, which is significantly stronger when switching loads than when switching resistive loads.	х	
Approvals and testing marks	The test testing ir compliar Note: If a available Approval dependir CSA	marks are a way for independent (official or private) approval bodies and astitutions to confirm compliance with the respective regulations and/or nee with specified product properties. In approval-relative technical data is missing from the data sheet, it is on request. In that we offer for Weidmüller relay modules and solid-state relays, and on the variant: Canadian Standards Association, Canada Classification society made up of testing bodies Det Norske Veritas and Germanischer Lloyd, Norway Technischer Überwachungs-Verein [German Technical Inspectorate], Germany Component Recognition Mark from UL (Underwriters Laboratories, Inc.) for the USA and Canada Component Listing Mark from UL (Underwriters Laboratories, Inc.) for the USA and Canada VDE Testing and Certification Institute, Germany (expert reports with production monitoring)	x	х

EMR = Electromechanical relay SSR = Solid-state relay



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EMR

B10 and **B10**d

The B10 value indicates the nominal service life in switching cycles where 90% of a unit of tested relays still work. It is therefore the average number of switching cycles, according to which 10% of relays are to be expected to fail. This value is a statistical expected value that was determined on the basis of lifetime tests. In real applications, the lifetime values differ from the B10 value, as each load is different and the environmental parameters, such as humidity, air pollution, heat, vibrations, radiation, etc., have an influence on the service life. The loads used for the determination of the B10 values are specified in the contactor standard EN 60947 in different categories of use suchas z.B. DC-13 or AC-15. However, users must be aware that these loads reflect practice only to a limited extent. Because all DC-13 and AC-15 test loads are highly inductive and operate without a protection circuit. Furthermore, the B10 values are determined at significantly higher switching frequencies than usual in reality. This is done to shorten the test execution time, otherwise tests would take years to deliver a result. An increased switching frequency also represents an increased load on the relay than usual in reality. However, it is almost impossible to compare B10 values of different providers. To compare different relays, the relays would have to be measured in exactly the same test setup. For this reason, the B10 values are often only provided by the manufacturer on request. The B10d indicates the number of switching cycles according to which a dangerous failures occur in 10% of the units considered. The addition "d" stands for "dangerous". The value is for the creationa risk and hazard analysis relevant and thus also for the evaluation of the safety of a machine or plant. If there is no knowledge of the number of hazardous failures, EN ISO 13849-1 recommends the following calculation for

B10d = B10 x 2 This means that it is assumed that every second failure is a dangerous failure.

Bistable relay, impulse relay, remanence relay

A relay is called bistable if its contacts can assume two different stable switching states when de-energised. This means that once the contact has changed its switching position due to the energising parameter (input voltage), it remains in its switching position after the energising parameter is switched off. A further energising process is required in order to change the switching position.

Impulse relay:

A bistable relay that remains in an energised state due to mechanical interlock is called an impulse relay. Impulse relays switch over to the other switching state during an energising pulse and maintain this state until the next pulse.

Remanence relay: A bistable relay that remains in an energised state due to remanence after the energising variable is switched off is called a remanence

To switch over to the other switching state:

- Apply a voltage to a second coil
- Apply a voltage with opposite polarity for relays with only one coil

	for EMR	for SSR
An unintended phenomenon that may occur in electromechanical relays, during the closing or opening of a contact circuit when the contact elements touch and separate again before they have reached their final positions. Solid-state relays do not exhibit this behaviour because they switch electronically, meaning that no mechanical bouncing can occur.	х	
The time (average value) between the first and last closing (or first and last opening) of a relay contact. These times are valid when the rated voltage is used for excitation without any other components connected in series or in parallel to the coil, and at the reference room temperature (approx. 23°C).	х	
Abbreviation for Communauté Européenne (the European Community). Manufacturers use the CE label to confirm that their products comply with the corresponding EC directives and the "essential requirements" therein.	х	х
Clearance and creepage distances are critical factors which influence the insulation capability of electrical components. The creepage distance denotes the minimum clearance that two live parts along a surface must have in order to prohibit a flow of current across the insulating material at the specified operating voltage. In addition to the operating voltage, the choice of insulating material (material group) and the protective measures to counteract pollution (pollution severity) affect the creepage distance. The clearance distance denotes the minimum direct clearance (through the air) that two live parts must have to one another in order to prohibit a charge passing through the air (an arc). The expected surge voltage (rated impulse voltage) forms the basis for calculating the distances. The surge protection category and pollution severity are further factors that influence dimensional design considerations.	х	x
Clearance distance — — — Housing contours		
Live, current-carrying parts		
	Solid-state relays do not exhibit this behaviour because they switch electronically, meaning that no mechanical bouncing can occur. The time (average value) between the first and last closing (or first and last opening) of a relay contact. These times are valid when the rated voltage is used for excitation without any other components connected in series or in parallel to the coil, and at the reference room temperature (approx. 23°C). Abbreviation for Communauté Européenne (the European Community). Manufacturers use the CE label to confirm that their products comply with the corresponding EC directives and the "essential requirements" therein. Clearance and creepage distances are critical factors which influence the insulation capability of electrical components. The creepage distance denotes the minimum clearance that two live parts along a surface must have in order to prohibit a flow of current across the insulating material at the specified operating voltage. In addition to the operating voltage, the choice of insulating material (material group) and the protective measures to counteract pollution (pollution severity) affect the creepage distance. The clearance distance denotes the minimum direct clearance (through the air) that two live parts must have to one another in order to prohibit a charge passing through the air (an arc). The expected surge voltage (rated impulse voltage) forms the basis for calculating the distances. The surge protection category and pollution severity are further factors that influence dimensional design considerations.	Solid-state relays do not exhibit this behaviour because they switch electronically, meaning that no mechanical bouncing can occur. The time (average value) between the first and last closing (or first and last opening) of a relay contact. These times are valid when the rated voltage is used for excitation without any other components connected in series or in parallel to the coil, and at the reference room temperature (approx. 23°C). Abbreviation for Communauté Européenne (the European Community). Manufacturers use the CE label to confirm that their products comply with the corresponding EC directives and the "essential requirements" therein. Clearance and creepage distances are critical factors which influence the insulation capability of electrical components. The creepage distance denotes the minimum clearance that two live parts along a surface must have in order to prohibit a flow of current across the insulating material at the specified operating voltage. In addition to the operating voltage, the choice of insulating material (material group) and the protective measures to counteract pollution (pollution severity) affect the creepage distance. The clearance distance denotes the minimum direct clearance (through the air) that two live parts must have to one another in order to prohibit a charge passing through the air (an arc). The expected surge voltage (rated impulse voltage) forms the basis for calculating the distances. The surge protection category and pollution severity are further factors that influence dimensional design considerations.

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EMR = Electromechanical relay SSR = Solid-state relay

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		for EMR	for SSR
Coil resistance	Ohmic resistance (direct current resistance) of a relay coil measured at room temperature (approx. 23 °C) and coil temperature equal to room temperature. For AC coils, only the ohmic resistance is specified in the data sheet. The impedance, which can be calculated from the inductive resistance (reactance) and the ohmic resistance, only occurs during operation of AC coils and is considerably greater than the specified ohmic resistance. Therefore, the information in the data sheets for AC coils is not suitable for calculating the rated current of the coil. The coil resistance is heavily dependent on the coil temperature, which is influenced by parameters such as the ambient temperature, the rated control voltage and the duty cycle. Therefore, the values in the application may differ from the data sheet specifications. The coil resistance is only specified for relays and relay modules that have no other electronic components upstream from the coil. These types of inputs with upstream circuitry do not allow for reliable resistance data in the data sheet. For this reason, no resistance is specified in the data sheet for these inputs or for solid-state relays.	x	
Combination of relay and relay socket, insulation requirements and thermal characteristics	Even if the socket or relay itself already meets (or surpasses) the insulation requirements, there may still be reduced clearance and creepage distances (and thus reduced insulation rated voltage) for the combination of the relay and socket. Restrictions – such as a reduced voltage range or reduced pollution degree – should be expected for the relay/socket combination. This is especially important for miniature multi-pole relays in combination with sockets, which have minimal gaps between the contact circuits. In addition to the insulation properties, the thermal properties of the combination are highly significant (see item entitled "Derating curve"). The relay sockets from different manufacturers cannot be compared directly, which is why the technical specifications are only guaranteed for approved combinations. Possible risks of fire or reduced dielectric strength may result when non-approved combinations are in use.	x	×
	Note: We only confirm the properties for the approved combinations of Weidmüller relays and Weidmüller sockets as specified in the catalogue and data sheets.		



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		for EN	for SS
Contact material, Contact materials	Relay modules are used in a wide variety of industrial areas and environments. The relays must therefore be adapted to the various tasks by selecting suitable contact materials. The following applies: the load capacity of the contacts for voltage, current, and power depends essentially on the material used. To make the selection easier for you, we have compared the most important characteristics of the contact materials. Criteria for the selection of the contact material: Welding tendency Burn-off resistance Contact resistance Material migration Resistance to harmful gas atmospheres Material: Silver-nickel (AgNi) Characteristics: Higher welding tendency than AgSnO and AgCdO High burn-off resistance Lower contact resistance than AgSnO and AgCdO Mean material migration Low resistance to harmful gas atmospheres Recommended applications: Suitable for low to high resistive and low inductive loads (solenoid valves, fans, heaters) Standard contact material for a variety of relays Limited suitable for high inrush currents Suitable for loads > 12 V/10 mA or 5 V/100 mA Material: Silver-nickel flash gold plated (AgNi + 0,15 Au) Characteristics: Higher welding tendency than AgSnO and AgCdO High burn-off resistance (gold just storage protection) Lower contact resistance than AgSnO and AgCdO Mean material migration Low resistance to harmful gas atmospheres Recommended applications: Suitable for low to high resistive and low inductive loads (solenoid valves, fans, heaters) The flash gold plating is a storage protection, but	×	for St
	offers no functional improvement to AgNi Limited suitable for high inrush currents Suitable for loads > 12 V/10 mA or 5 V/100 mA		
	EMR = Electron	necnanica	ı relav



Weidmüller ₹ 3043770000

		for EMR	for SSR
Contact material,	Material: Silver-nickel hard gold plated (AgNi + Au)	X	+
Contact materials	Characteristics:		
(Continuation)	Very low resistance to burn-off		
	Lowest contact resistance		
	High resistance to harmful gas atmospheres		
	Recommended applications:		
	 Suitable for decoupling control inputs and other small resistive loads 		
	 Suitable for loads > 1 V/1 mA and < 30 V/10 mA 		
	 After switching loads > 30 V/100 mA, small powers can no longer be 		
	switched reliably because the hard gold plating has been burned-off.		
	Only the characteristics of the base contact material AgNi still apply.		
	Material: Silver-Tin-Oxide (AgSnO)		
	Characteristics:		
	Lower welding tendency than AgNi		
	High resistance to burn-off		
	Average contact resistance		
	Lower material migration than AgNi		
	Very low resistance to harmful gas atmospheresn		
	Recommended applications:		
	Suitable for medium to high resistive DC-loads and low up to medium		
	inductive DC loads due to low material migration. Thanks to the low		
	tendency to weld, it is also well suited for loads with higher inrush currents		
	such as lamp loads, light capacitive loads, fluorescent tubes, etc. • Suitable for loads > 12 V/100 mA		
	• Suitable for loads > 12 V/ 100 mA		
	Material: Tungsten (W)		
	Characteristics:		
	Lowest welding tendency Vary high register as to buy a ff		
	Very high resistance to burn-off Use heart contact resistance.		
	Highest contact resistance Low material migration		
	Recommended applications:		
	Suitable for loads with very high inrush currents of up to		
	165 A/20 ms or 800 A/200 μs (e.g. lamp loads, capacitive loads,		
	fluorescent tubes, switched-mode power supplies etc.)		
	Often used as a pre-making contact in parallel to AgSnO contacts		
Contact resistance	Electrical resistance between the closed relay contacts.	x	
	In most applications, the contact resistance does not play a significant role in		
	the reliability of a relay. However, a low contact resistance can only be reliably		
	achieved above a certain load (see item entitled "Contact material" or "Minimum		
	switching capacity").		
	With very small loads, significantly higher contact resistances can occur,		
	especially with switching voltages < 30 V and switching currents < 10 mA. In		
	such cases, it is recommended to use hard gold-plated contacts.		
	After the relay has been operated in a permanently off or on state for several days	;	
	(e.g. due to adverse environmental conditions such as harmful gas atmospheres)		
	or after it has been stored, it is recommended that a certain number of cycles be		
	performed before measuring the contact resistance. This is achieved by means of		
	electrical cleaning, which can be performed by switching a sufficient load and by		
	salf-cleaning caused by contact friction during the switching process		

self-cleaning caused by contact friction during the switching process.



		for EMR	for SSR
Contact welding, Adhesive bonding (contacts) Capacitive loads	Often occurs due to excessive inrush currents, e.g. when switching capacitive loads. See also the item entitled "Inrush currents". However, this can also occur when switching loads without high inrush currents, although this will often be at the end of the contact's service life. This happens due to material peaks on the contour surfaces which are caused by material migration and/or combustion. These material peaks then merge during the switch-on process, since the current of the load is conducted via this small contact point, which then leads to a brief	x	
Continuous current	but strong temperature increase that can weld the contacts. Current that can be carried continuously without exceeding the limit values for contact heating under certain conditions. Consider the derating curve. This current can also be switched on and off in the case of AC voltages. With DC voltages, this is only possible to a limited extent. See diagram: DC load limit curve.	х	х
Continuous operation	Operating mode in which a relay remains energised until it reaches thermal equilibrium. Unless otherwise specified, all Weidmüller relays are suitable for continuous operation.	х	х
D			
DC load switching capacity, DC load limit curve, DC breaking capacity	Values below the DC load switching capacity curve (for max. permitted switching voltage/current at resistive load) can be switched on and off reliably; e.g. an arc is extinguished (max. arc duration is 10 ms at resistive load). The position and shape of the load-limit curve is influenced by the contact material and relay construction (contact gap, opening speed of the contacts, etc.) The DC breaking capacity can be increased by connecting relay contacts in series. This is shown with dashed lines in the DC Load Limit Curves diagrams, if specified. For further information, please refer to the item entitled "Series connection of relay contacts". Information about the electrical lifespan should not be derived from these curves!	х	
DC switching capacity (resistive), max.	Calculated product for resistive loads from continuous current and switching voltage in W. When switching inductive loads, it is recommended to reduce the switching capacity in order to achieve the longest possible service life. The reduction results from the arc, which is significantly stronger when switching inductive loads than when switching resistive loads. The specified switching capacity refers to 24 V DC switching voltage. For other DC switching voltages, refer to the DC load limit curve provided in the data sheet.	х	



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		for EMR	for SSR
Electric function of the amust be upper latemper Unless conditiant and the second seco	rated control voltage % duty cycle stive load ely packed with several identical products contally and vertically oriented terminal rail (in an upright cabinet) entilation in the cabinet hading by cable conduits ating of the product can be increased by the following parameters, which d to heating above the limit temperature and therefore to damage or even ction of the product: ling, e.g. by cable conduits fitted too narrowly, which can lead to heat mulation switching frequencies, especially when switching high currents or ctive loads (arcing) mth from other devices mounted nearby ating of the product can be reduced by the following parameters: liction of shading by increasing the distances to cable conduits, for	x	X
Dielectric strength Voltage	e (RMS value for AC voltage, 50 Hz, 1 min) which can be applied between ly insulated relay components during the voltage test.	х	х
	sions in millimetres. Width	х	x



for EMR	G00 c
Х)

Drop-out current, typ

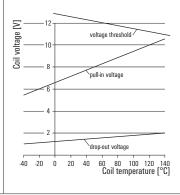
Typical current at which previously switched on monostable electromechanical relays and solid-state relays switch off.

This means that this is the maximum input current value that must not be exceeded for switch-off in order to switch off the relays.

They can also switch off at currents that are significantly higher than the specified value, since the specified value is a typical value at which they should be switched off.

For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and an only briefly energised input (coil temperature below thermal stability).

The switching thresholds of electromechanical relays are strongly dependent on environmental parameters such as ambient temperature (see diagram below), mounting position, manufacturing tolerances (e.g. coil resistance) and the shape of the control signal. Therefore, the values in the application may differ from the data sheet specifications. The switching thresholds of solid-state relays fluctuate less, since the electronic components are less temperature-dependent than a relay coil.





		for EMR	for SSR
Drop-out voltage, typ	Typical voltage at which previously switched on monostable electromechanical relays and solid-state relays switch off. This means that this is the maximum input voltage value that must not be exceeded for switch-off in order to switch off the relays. They can also switch off at voltages that are significantly higher than the specified value, since the specified value is a typical value at which they should be switched off. For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and an only briefly energised input (coil temperature below thermal stability). The switching thresholds of electromechanical relays are strongly dependent on environmental parameters such as ambient temperature (see diagram below), mounting position, manufacturing tolerances (e.g. coil resistance) and the shape of the control signal. Therefore, the values in the application may differ from the data sheet specifications. The switching thresholds of solid-state relays fluctuate less, since the electronic components are less temperature-dependent than a relay coil.	x	x
Duty cycle, relative duty cycle	Describes the ratio of the switched-on state of a relay or solid-state relay to the total duration in intermittent, continuous or short-time operation. The duty cycle is expressed as a percentage of the total cycle duration. The heating of the relay can be influenced positively or negatively by the duty cycle. A high duty cycle leads to increased heating of the relay due to the power loss of the coil and the switching contacts. Unless otherwise specified, Weidmüller relay modules and solid-state relays are suitable for 100% duty cycle (continuous operation). With very fast switching solid-state relays, the duty cycle also affects the maximum switching frequency. This is then indicated in the corresponding diagrams in the data sheet.		



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for EMR

х

Ε

Electrical endurance, Electrical endurance curve, contact endurance

Number of switching cycles of a relay with electrical contact load under full operational capability. Unless otherwise stated, the contact data and electrical lifespan curves are valid under the following conditions:

- · Measured at the NO contact
- Resistive AC load
- AC mains frequency 50 Hz
- Duty cycle 50%
- · Switching frequency 0.1 Hz
- Rated control voltage (coil)
- Ambient temperature 23°C
- Individual assembly

The electrical lifespan is specified according to the criteria for ,useful life', severity level B according to IEC 61810-2. The data does not cover any use beyond the specified electrical lifespan; it is the responsibility of the user to avoid such situations. Experience has shown that the electrical lifespan remains relatively constant with an AC load up to a power factor ($\cos \varphi$) of 0.8.

However, each load places different demands on the switching contact and other environmental factors also influence the service life of the switching contact, e.g. the type of load, the switching voltage at the contact, the switching current of the load, any inrush currents, the ambient temperature, the mounting position, the switching frequency and many more.

Therefore, the real service life could be either above or below the specified value. For loads other than those specified in the service life data, it is recommended that user advice be followed; alternatively, recommendations can be found in the selection table in Chapter A.

For critical applications it is recommended that the service life values be determined independently by the user.

Please note: The curve for the electrical lifespan specifies the typical service life as the "Mean Cycles to Failure" (MCTF) and is based on the Weibull distribution. No guaranteed minimum values can be interpreted from this statistical data. The electrical lifespan must not be compared with the mechanical lifespan when switching larger or inductive loads, as the mechanical lifespan is measured without contact load and the failure criteria are different. The difference between the mechanical and electrical lifespans becomes greater as the switching current increases. For more information on the mechanical lifespan, see item entitled "Mechanical lifespan".

EMR = Electromechanical relay SSR = Solid-state relay



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	malfunctions that exceed a certain number: • Malfunction when closing contacts • Malfunction when opening contacts (contact bridging in CO contact as a special form of malfunction when opening contacts) • Insufficient dielectric strength. Such malfunctions must be considered in the scope of the application – they should not create any risks. Depending on the specific load and the power in the contact set, malfunctions can result in various risks such as malfunctioning of the device and its controls, electric shock and excessive heating or even fire. The user is responsible for taking the necessary precautions in accordance with the relevant regulations. Indicates the flammability class according to the specification from UL 94 (Underwriters Laboratories, Inc., USA). Flammability tests according to UL 94: for testing plastic materials and classifying the propagation/extinction characteristics when the material burns. The UL 94 flammability classes which are relevant to relays are V-0, V-1, V-2 and HB. Idvanic isolation Potential-free isolation between electrical components. Electrical (or galvanic) isolation means that no charge can flow from one circuit to another. There is no conductive electrical contection between the circuits. The circuits can nevertheless exchange electrical power or signals via magnetic fields, infrared radiation or by charge displacements. Ratio between the actual and the maximum possible mass (quantity) of water vapour in the air - Unit: % When storing or operating under other conditions, steps must be taken to avoid temperature changes/shocks which could cause icing or condensation. The plastic used in the products can expand due to high humidity and contract due to low humidity, which can lead to increased insertion and pulling forces of cross-connections and other accessories.	for EMR	for SSR
Error, relay failure	 malfunctions that exceed a certain number: Malfunction when closing contacts Malfunction when opening contacts (contact bridging in CO contact as a special form of malfunction when opening contacts) 	_	
	should not create any risks. Depending on the specific load and the power in the contact set, malfunctions can result in various risks such as malfunctioning of the device and its controls, electric shock and excessive heating or even fire. The user is responsible for taking the necessary precautions in accordance with the		
F			
Flammability according to UL	(Underwriters Laboratories, Inc., USA). Flammability tests according to UL 94: for testing plastic materials and classifying the propagation/extinction characteristics when the material burns. The UL 94 flammability classes which are relevant to		Х
G			
Galvanic isolation	isolation means that no charge can flow from one circuit to another. There is no conductive electrical connection between the circuits. The circuits can nevertheless exchange electrical power or signals via magnetic fields, infrared	х	х
н			
Humidity, relative humidity, condensation	vapour in the air - Unit: % When storing or operating under other conditions, steps must be taken to avoid temperature changes/shocks which could cause icing or condensation. The plastic used in the products can expand due to high humidity and contract due to low humidity, which can lead to increased insertion and pulling forces of	х	X
I			
Impulse withstand voltage		х	х



		for EMR	for CCD
Inrush current (output)	The highest value of current that can be switched on by an output of a relay module or solid-state relay. This current is specified along with a time for which it can be carried. The inrush current for some loads can be considerably higher than the specified rated current. Loads with a capacitive load component, especially LED lamps, place extreme demands on the switching contacts regardless of the type of voltage. They have extremely high-energy current peaks at the moment of switch-on. These can reach over 100 A and can weld the contact right from the first switch-on. Therefore, when selecting the relay, consideration must be given as to whether high inrush currents will be generated by the load being switched. Potential loads with high inrush currents are: Lamp loads, especially LED lamps Power supplies Loads with wide-range inputs (e.g. with control voltages of 110-230 V AC/DC) such as solenoid valves and contactors Loads with other special input circuits such as energy-saving circuits Motor loads with high starting torques, e.g. gears Servomotors For these types of loads, it is recommended that special relay couplers (e.g. relay modules with tungsten pre-run contact) be avoided. Furthermore, solid-state relays are also very well-suited to high but short inrush current peaks, as they do not contain any mechanical components and therefore cannot fail.	x	+
Instantaneous switching	Solid-state relays with AC outputs such as triacs or thyristors which switch on immediately on switch-on and switch off at the zero crossing of the switching current. For this reason, switching off may be delayed depending on the phase position at the time of switching and on the mains frequency of the switching current. Signal characteristics of instantaneous switching PSSR shown at an example with resistive load U, I U_I U_L_L_L_L_L_L_L_L_L_L_L_L_L_L_L_L_L_L_		>>



		for EMR	for SSR
Insulating material group	According to their CTI (comparative tracking index) values, the insulating materials are categorised in one of the following four groups: Group I 600 CTI Group II 400 CTI < 600 Group IIIa 175 CTI < 400 Group IIIb 100 CTI < 175 The figures for the comparative tracking index, according to IEC 60112 (DIN IEC 60112 / DIN VDE 0303-1) are determined using special samples prepared for this purpose with test solution A.	x	x
L	Professor and Professor		
Leakage current	The current on the load side of a solid-state relay that flows when the output stage is in the locked state. It flows because a solid-state relay does not provide galvanic isolation of the output, as is the case when there is an air gap when the contact of an electromechanical relay is open. The output of a solid-state relay only becomes high-impedance when it is locked, meaning that only a very small amount of current is flowing. Solid-state relays with AC output often have an RC protective suppressor circuit in parallel to the output, which is why leakage currents of up to 2 mA can flow in the locked state.		x
Load limit integral (I ² t)	The load limit integral (l²t), specified in A²s, is the pulse-shaped (< 10ms) short-term overload capacity of the semiconductor switch in solid-state relays or semiconductor contactors. It is used to select a fuse as device protection for the output of a semiconductor switch. If this value is exceeded, the semiconductor switch may be destroyed; when selecting the fuse size, it is therefore recommended that the l²t of the fuse is half the size of the semiconductor switch.		х
M			
Max. reset time in the case of a voltage interruption, recovery time	Time that needs to elapse after the excitation variable has been switched off in order for the timing relay to fulfil a function again as specified.	х	x
Max. switching frequency (DC and AC control voltage)	Number of switching cycles per time unit of a solid-state relay with continuous current and resistive load. When switching inductive loads with switching frequencies faster than 0.5 Hz, an external protective suppressor circuit must be connected in parallel with the load. If this is not possible, solid-state relays specially designed for switching inductive loads must be selected. Due to the input wiring of the solid-state relay (e.g. bridge rectifier and smoothing capacitor), different switching frequencies can often be implemented for solid-state relays with AC/DC (UC) input. These specifications are therefore listed separately in the data sheet.		x
Max. switching frequency at rated load	Number of switching cycles per time unit of an electromechanical relay at max. switching capacity and resistive load. The switching frequency for small and medium loads can be higher than the value specified in the data sheet if the switching characteristics of the load (such as arcing) do not overload the contact to an inpermissible extent.	X	rolay

SSR = Solid-state relay

		for EMR	for SSR
Mechanical service life	The number of switching cycles for current-free relay contacts for which the relay must remain functional under specific conditions. Although the mechanical lifespan is determined without a contact load, it can give an indication of the electrical lifespan with contact loads < 100 mA (resistive load). The mechanical lifespan must not be compared with the electrical lifespan when switching larger or inductive loads, as the mechanical lifespan is measured without contact load and the failure criteria are different. The difference between the mechanical and electrical lifespans becomes greater as the switching current increases. For more information on the electrical lifespan, see item entitled "Electrical lifespan".	х	+
Mechanical switch position indicator	Plastic lever inside some electromechanical relays, which is mechanically connected to the armature. The switching position of the relay armature can therefore be seen through an inspection window in the relay cover.	X	
Min. pulse duration	Shortest required period for the start impulse to start the time function of a timing relay.	х	х
Min. switching current	Specifies the minimum switching current of the output of a semiconductor switch. A semiconductor output, in particular triacs and thyristors, requires a minimum load current to open and close reliably.		х
Minimum switching capacity	The calculated product of the switching current and switching voltage – a measure of reliable switching. Low contact resistance values are only achieved above a certain power, because when switching loads above this power, a sufficient arc is generated that burns away or breaks through oxidation layers and dirt (electrical cleaning). Greatly increased resistances may occur at lower switching loads, which can prevent the load circuit from being reliably switched. The switching voltage has a greater effect than the switched current when switching small powers, because the formation of an arc is more dependent on the switched voltage than on the switched current. The minimum contact loads for different contact materials should also be taken into account. (see item entitled "Contact materials") By switching regularly (at least several times a day), it is also possible to switch powers below the minimum contact loads of the various contact materials (except for hard gold-plated contacts). This is achieved by the self-cleaning effect caused by contact friction during the switching process. The minimum switching capacity can be negatively affected by harmful gas atmospheres in the ambient air.	X	
Mono-stable relay	A relay is referred to as mono-stable when its contacts return to the state of rest automatically after the energising parameter (the input voltage) is switched off.	х	x



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		for EMR	for SSR
Mounting distance	Distance between two adjacent components when using parallel, same orientated positioning; or the distance to other electrical components, e.g. on a terminal rail. Because of the insulation requirements or the self-heating (derating) it may be necessary to increase the minimum gap between the components or select a different positioning. Self-heating can be improved by increasing the mounting distance. This can help to reduce the derating of the switching current. In addition to this definition, the following applies: • Densely packed installation: Designed with minimum mounting distance to products from the same Weidmüller product series. Unless otherwise stated, from the point of view of self-heating, Weidmüller relay modules and solid-state relays are suitable for densely packed installation with other products from the same Weidmüller product series. It is recommended that there should be a mounting distance between these and other components from other Weidmüller product series or components from other manufacturers, as this can lead to a reduction in the insulation properties or to an unacceptable increase in self-heating. • Individual installation: components are mounted with gaps so that there are no thormal influences from adjacent components.	x	X
Mounting position	thermal influences from adjacent components. Electromechanical relay modules and solid-state relays (SSR) from Weidmüller can be installed in almost any position unless otherwise specified in the data sheet. The mounting positions used in the industrial environment are: mounted on a terminal rail in a horizontal or vertical installation position in an upright control cabinet. These positions are also checked when determining the derating curves. However, the most common method of installation is on a horizontally aligned terminal rail. It is not recommended to install the relays upside down (relay pointing downwards) as this is not taken into account when determining the derating curves. This would also lead to heat accumulation and the risk of a pluggable relay slipping out of the socket due to vibrations. To ensure the proper current flow and heat dissipation, the connections must have adequate cross-sections. Several factors must be taken into consideration when positioning: including the insulation requirements, heat dissipation and the possible mutual magnetic and thermal influence.	x	X
MTTF	MTTF is the abbreviation for Mean Time To Failure and is also designated as the mean operating service life. For relay modules and solid-state relays, the MTTF value is equal to the MTBF because no repair is performed on the products. They are replaced after a defect, which means that there is no repair time. The MTTF value of relay modules is calculated on the basis of the B10 value (see item entitled ""B10 value") and the switching cycles occurring in the application. It can be calculated using the following formula for electromechanical relays: MTTF = B10 ÷ (0.1 × n) The value "n" is the number of annual switching cycles in the application. The user must enter this value together with the appropriate B10 value in the formula in order to calculate the possibility of failure of the relays used in the application. The MTTF value of solid-state relays is calculated using the parts counting method, based on the basic failure rates from SN29500. This is possible because a solid-state relay is not subject to mechanical wear, meaning that the statistical failure values of the individual components within the solid-state relay can be added together. Electrical connections and plug-in connections were not taken into account when calculating the values specified in the data sheet. The failure rates of electronic components increase considerably after approx. 8 to 12 years, causing the MTTF values to decrease (see EN 61508-2: 2011-02, 7.4.9.5 Neto. 2)		х

7.4.9.5, Note 3).

		for EMR	for SSR
N			
Nominal torque	The specified value for the torque of the screws (screw connection) must not be exceeded.	х	х
0			
Operating temperature	Permissible ambient temperature – relative to a specific relative humidity – at which a product should be operated at nominal load.	х	x
Operational voltage range	Permissible range of the input voltage depending on the ambient temperature. Operating voltage range curve in the data sheet: The top part of the range is specified by the maximum voltage; the lower part of the range is specified by the response/minimum voltage Curve 1: Response/minimum voltage U0 (without pre-excitation) Curve 2: Response/minimum voltage U1 (after pre-excitation) Curve 3: Maximum voltage U2, contact current = 0 A Curve 4: Maximum voltage with contact current Inenn Operating voltage range Operating voltage range Ambient temperature [°C] The diagrams are valid for the single mounting of relays without thermal	x	x
	The diagrams are valid for the single mounting of relays without thermal interference and connection wiring according to IEC 61810-1; unless otherwise indicated, the data is displayed without contact load and without taking into account the temperature rise due to the contact current. If no operating voltage range curve is specified in the data sheet, the tolerances in per cent (%) can be found in the rated control voltage characteristic. The use of a relay with an excitation voltage other than the rated coil voltage can lead to a reduced electrical lifespan (mechanical and dynamic effects).		
P			
Packing unit	Indicates the smallest amount (a pack, for example) or the quantity per carton.	х	х
Plug-in cycles	Sockets and accessories are designed for 10 insertion cycles without electrical load – unless otherwise specified.	х	х



W.30

		for EMR	for SSR
Pollution severity level	Pollution (contamination) includes any foreign material – whether it is solid, liquid or gaseous (ionised gas) – which is capable of influencing the surface resistance of the insulating material. The standard defines four degrees of pollution. Their numbering and classification is based on the quantity of the contaminant or the frequency with which the contaminant reduces the dielectric strength and/or surface resistance.	х	X
	Pollution degree 1: • there is no contamination or only dry occurrences of non-conductive pollution. The pollution has no influence.		
	Pollution degree 2: • there is only non-conductive pollution. Temporary occurrences of conductivity caused by condensation may also occur.		
	Pollution degree 3: • conductive pollution or dry, non-conductive pollution that can become conductive due to condensation is likely to occur.		
	Pollution degree 4: • the contamination leads to continual conductivity which can be caused by contaminants such as conductive dust, rain or snow.		



		for EMR	for SSR
Positively driven contacts	Relays with positively driven contacts according to EN 61810-3 are characterised by the fact that, due to a mechanical guide, the NO and NC contacts of a relay cannot be closed at the same time. Design differences compared to relays with standard contacts: In relays with positively driven contacts, some components within the relay have a more heavy-duty design. This is the case for components such as the contact springs and the armature. This is in order to reduce the possibility of a dangerous failure. However, it also means that the coils in these relays need to be stronger in order to move the larger or heavier parts. As a result, these types of relays have up to twice the power consumption compared to standard relays. In addition, there is more insulation between the input and output and between the output channels in relays with positively driven contacts compared to standard relays of the same size. To use relays with positively driven contacts for safety applications, at least one of the relay's NO contacts and one of its NC contacts must be integrated into the circuit design. The NO contact of the first channel then switches the function in the safety application and the NC contact of a second channel gives a feedback signal to the control unit. This means that if one of the NO contacts welds, for example, the following function step of the application cannot be initiated and the circuit is stopped because the NC contact cannot give a feedback signal due	_	
Power rating (input)	 to the fact that the NO is welded. The standard EN 61810-3 describes the requirements for relays with positively driven contacts. Type A: Type A relays only have NO and NC contacts Type B: Type B relays have CO contacts; in applications where the positively driven contact function is to be used, only the NO or NC contacts of a CO contact may be used. The nominal value of the power that is converted when the rated control voltage is applied in individual installation. For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and an only briefly energised coil (coil temperature below thermal stability). The power rating depends on environmental parameters such as the ambient temperature, the mounting position and the manufacturing tolerances (coil resistance). Therefore, the values in the application may differ from the data sheet specifications. 	x	x



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		for EMR	for SSR
Protection degree – (IEC 60529), IP	The degree of protection afforded by an enclosure is shown using the IP Code (IP = International Protection). This information is equally relevant for industrial relays and accessories.	х	х
	Protection levels for touch contact and foreign bodies (the first digit): the first digit indicates the degree of protection inside the housing against ingress of solid foreign objects and against any human access to hazardous parts. O: no protection 1: protection for large body parts with a diameter > 50 mm 2: finger protection (diameter 12 mm) 3: tools and wires (diameter > 2.5 mm) 4: tools and wires (diameter > 1 mm) 5: full protection against touch contact 6: full protection against touch contact Degree of water protection (the second digit)		
	Degrees of protection: water protection (2nd digit) The second digit indicates the degree of protection provided against the ingress of water into the housing: 0: no protection 1: protection against vertically falling drops of water 2: protection against water droplets falling diagonally (up to 15°) 3: protection against water spray that falls at an angle up to 60° from vertical 4: protection against splashed water from all sides 5: protection against water jets 6: protection against powerful jets of water (flooding) 7: protection against sporadic submersion 8: protection against constant submersion		



		for EMR	
Protective circuit on the control side (solid-state relay) or protective circuit (electromechanical relay)	The protective suppressor circuit at the input can either be plugged into the socket by a plug-in module or it can be integrated into the electromechanical relay or the solid-state relay. The various protective suppressor circuits and their function are explained below: Free-wheeling diode:	х	+
at the input	Protects only the control electronics from the inductive cut-off voltages of the relay coil of an electromechanical relay with DC coil. Attention: If no additional reverse polarity protection has been previously installed, a short circuit can be caused by reverse polarity. Varistor:		
	Protects the input of an electromechanical relay or solid-state relay from surge voltages.		
	In electromechanical relays, it also protects the control electronics from the inductive cut-off voltages of the relay coil. Rectifier:		
	Enables AC and DC voltages to be connected as a protective suppressor circuit in the input without prescribing a polarity direction. In electromechanical relays, it also protects the control electronics from the inductive cut-off voltages of the coil.		
	RC element: Protects the control electronics from the inductive cut-off voltages of the relay coil of an electromechanical relay with AC coil.		
	Coupled voltages in long control lines at the input may mean that an electromechanical relay or solid-state relay no longer switches off reliably. An RC element allows for the reduction of the coupled voltages, which can cause the electromechanical relay or solid-state relay to drop out.		
Protective circuit, load side (solid-state relay)	Protective suppressor circuit integrated in the output of the solid-state relay. The protective suppressor circuit at the output of a solid-state relay protects the output against surge voltages such as those that occur when switching off		2
	inductive loads. Due to the very compact design of pluggable solid-state relays such as those used in the TERMSERIES as well as the limited heat dissipation, the protective suppressor circuit of these solid-state relays often only offers protection against small surge voltages, e.g. from very light inductive loads.		
	It is therefore highly recommended to have an additional external protective suppressor circuit parallel to the load when switching inductive loads with these pluggable solid-state relays. Otherwise, the semiconductor output may be		
	destroyed. When switching inductive loads with switching frequencies faster than 0.5 Hz, an external protective suppressor circuit must be connected in parallel with the load. If this is not possible, solid-state relays specially designed for switching inductive loads must be selected.		



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		for EMR	for SSR
Pull-in current, typ (input)	Typical current at which monostable electromechanical relays and solid-state relays reliably switch on. This means that this is the minimum input current value that must not be fallen below for switch-on in order to switch on the relays. They can also switch on at currents that are lower than the specified value, since the specified value is a typical value at which they should be switched on. For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C), coil temperature equal to room temperature and cold coil (without pre-excitation). The switching thresholds of electromechanical relays are strongly dependent on environmental parameters such as ambient temperature (see diagram below), mounting position, manufacturing tolerances (e.g. coil resistance) and the shape of the control signal. Therefore, the values in the application may differ from the data sheet specifications. The switching thresholds of solid-state relays fluctuate less, since the electronic components are less temperature-dependent than a relay coil.	x	X



		for	for
Pull-in voltage, typ (input)	Typical voltage at which monostable electromechanical relays and solid-state relays switch on. This means that this is the minimum input voltage value that must not be fallen below for switch-on in order to switch on the relays. They can also switch on at voltages that are lower than the specified value, since the specified value is a typical value at which they should be switched on. For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C), coil temperature equal to room temperature and cold coil (without pre-excitation). The switching thresholds of electromechanical relays are strongly dependent on environmental parameters such as ambient temperature (see diagram below), mounting position, manufacturing tolerances (e.g. coil resistance) and the shape of the control signal. Therefore, the values in the application may differ from the data sheet specifications. The switching thresholds of solid-state relays fluctuate less, since the electronic components are less temperature-dependent than a relay coil.	X	X
R			
Rated control voltage	Rated voltage at which the relay is to be operated and at which other input and output characteristics are measured. For AC, specifications are valid for 50 Hz unless otherwise indicated. Control with other operating modes, such as pulse width modulation (PWM) or half-wave rectification, can lead to changes in the input and output characteristics, which are measured with the rated control voltage.	х	x
Rated current DC or AC (input)	Rated current that the relay draws when controlled with rated control voltage. For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and an only briefly energised input (coil temperature below thermal stability). Control with other operating modes, such as pulse width modulation (PWM) or half-wave rectification, can lead to changes in the input and output characteristics, which are measured with the rated control voltage.	х	х
Rated switching voltage	The value of the nominal mains voltage with the standard tolerances found in the mains, which the contact can switch on the basis of the insulation data.	х	х
Rated voltage (Isolation)	Voltage level at which the insulation specifications are measured – this is the basis for sizing the clearance and creepage distance.	х	х

W

EMR = Electromechanical relay SSR = Solid-state relay

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		for EMR	for SSR
Relay times (time response) electromechanical relays	Because of the self-inductance of the coil and the inertia of the moving parts, the steps involved in operating a relay do not occur instantaneously. The following chart illustrates several time-function terms for the main contact variants of non-delayed switching relays. Rest position Switch of delay Working position Switch off delay Position of the moving parts Voltage at NO contact Open Closed Closed Closed Closed Time	x	
Repeat accuracy	Difference between the highest and lowest time range values for several measurements of a timing relay's time response under identical conditions. The value is given as a percentage of the mean value of all measured values.	х	х
Rest position	The switched position of a mono-stable relay in its de-energized state.	х	
RoHS Directive	RoHS stands for "Restriction of (the use of certain) Hazardous Substances". According to the EU Directive 2011/65/EU from 01.07.2011, all EU member nations must forbid the use of hazardous substances which damage human health and the environment (including mercury (Hg), cadmium (Cd), lead (Pb), hexavalent chrome (Cr6), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE)) in new electrical and electronic devices. The term "compliant" means that the entire product group meets the requirements of the RoHS Directive.	x	X



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		for EN	for SS
S			
(n TI ar th th is de	trictly speaking, switching voltages for digital control follow an analogue pattern to changeover from 0 to 1 between maximum and minimum voltages). This can lead to inaccuracies in switching results, above all when signals are being transmitted rapidly. In this case, the Schmitt trigger functions as a preshold switch. If the threshold voltage set in the Schmitt Trigger is exceeded, the output assumes the maximum possible output voltage (logic 1). Otherwise it the minimum possible output voltage (logic 0). The Schmitt trigger is normally esigned with a hysteresis. The threshold voltage set for activating is higher than that for deactivating. That prevents small irregularities from triggering a switching peration.		x
_	he heating up of an operational component based on the power loss from the elay coil and the switching contacts.	х	
Self-heating, power loss TI po TI as co lo H m po TI po TI ve	he heating up of a relay module or solid-state relay during operation due to the ower consumption of the input and the power loss from the switching contacts. he standard DIN EN 61439 "Low-voltage switchgear and controlgear ssemblies - Part 1: General rules" requires that the heating up of a switching ombination be determined for planners, panel builders and installers. The power loss of all installed equipment must be taken into account. Owever, this presupposes that the respective manufacturers of the equipment make the corresponding values available. In practice, determining the actual lower loss for certain equipment is difficult and only possible with a lot of effort, his also includes electromechanical relays and relay modules. We would like to rovide you with a simple recommendation to help calculate these power loss alues for Weidmüller relay modules and solid-state relays.	х	×
TI Spread of the	he power loss of a relay module can be calculated by adding the input power pecified in the data sheet to the output power loss. If you want to determine the seal power loss for the output, this depends on a number of parameters such as witching current, switching frequency, ambient temperature, arcing time, etc. erforming the calculation using all these values would be almost impossible, ecause many of these parameters are not known. Therefore, we recommend alculating the power loss at the output using a highly simplified formula of contact resistance and switching current: P = I ² x R he contact resistance is dynamic during the service life, and increases due to wear, e.g. contact erosion towards the end of the service life. Weidmüller ecommends using 10 mOhm (0.01 Ohm) as the contact resistance for alculating the output power loss of a relay module. It is not recommended to measure the contact resistance with a multimeter, because this can give completely incorrect values. For the maximum power loss, simply insert the continuous current from the data sheet into the formula. The calculate a value that is closer to the real power loss, it is recommended to expert the actual current switched in the application into the formula. The service is the power loss of 100% duty cycle If you now want to extermine the value more accurately, the power loss should be multiplied by the cuty cycle (in per cent). With a duty cycle of 50%, the power loss would be halved.	X	



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W

		for EMR	for SSR
Self-heating, power loss	Power dissipation in solid-state relays: The power loss calculation in solid-state relays behaves in almost the same way as that of electromechanical relays. Here, however, the maximum voltage drop specified in the data sheet is used instead of the contact resistance. This voltage drop is essentially dependent on the switched current. At low switching currents, the voltage drop is low, but it is recommended to use the maximum voltage drop from the data sheet. The highly simplified formula is then as follows: P = U _{voltage drop} x I For the maximum power loss, simply enter the continuous current from the data sheet into the formula. In order to calculate a value that is closer to the real power loss, it is recommended to insert the actual current switched in the application into the formula These formulas calculate the power loss for 100% duty cycle If you now want to determine the value more accurately, the power loss should be multiplied by the duty cycle (in per cent). With a duty cycle of 50%, the power loss would be	f	×
Series-circuit connection of	halved. The serial connection of 2 or more NO contacts of a relay causes the contact	x	
relay contacts	opening to increase on switch-off. Arcs which occur from DC loads are cleared more quickly which results in reduced burn-off on the contact. This increases the electrical endurance or the possible switching current or switching voltage. The possible switching current or the possible switching voltage is shown with dashed lines in the DC load limit curves diagrams, if specified. Information about the electrical endurance should not be derived from these curves!	,	
Setting tolerance	Difference between the measured value of the delay period and the set value on the time relay. The specification refers to the full scale value. The setting tolerance is measured directly at the relay contacts, i.e. a time is set using the scale on the device and then measured. The input signal (start of time measurement) is either the power supply or the control contact, depending on the definition of the function. The time measurement is ended by switching the output contact.	x	x
Short-circuit-proof	Switching off the output stage of some solid-state relays whose output was developed to be short-circuit proof in order to protect the output circuit from damage in the event of a short circuit. Solid-state relays without a special design in the output are not short-circuit proof and must be protected with a special fuse for device protection. A short-circuit-proof output does not release the user from the obligation to install line protection to protect the installation.		x
SIL	Safety Integrity Level. To reduce risk, the components must comply with the requirements of IEC 61508. This standard provides general requirements for avoiding and minimising device and equipment outages. It stipulates organisation and technical requirements concerning device design and operation. Four safety levels are distinguished for systems and risk-reducing measures, ranging from SIL1 for low risk to SIL4 for very high risk. Measures taken to reduce risk must be more reliable when the classified risk level is higher.	х	х
Solid state contactor, Power Solid-State Relay (PSSR)	A solid-state relay that can switch a high level of power, which is why they are called semiconductor contactors or PSSR (Power Solid-State Relays). They are considerably larger than conventional solid-state relays and often have a heat sink, which is needed in order to remove the power loss in the output.		x

		for EMR	for SSR		
Standardised labelling of connections	Connection designation according to EN 50005: The connections are defined by a two-digit code: A1 and A2 are used for the connections of the input or the coil For inputs of time relays which have connections for triggering the time function (control input), these are designated B1. For the connections at the output, the first number indicates the respective output channel and the second number the function. The following examples are given for a 1-channel output: NO contact: 13, 14 NC contact: 11, 12 CO contact: 11, 12, 14 (connection 11 is the common contact, i.e. the root) For relays with more than one output channel, the first number for the respective contact set is exchanged. For example, for a 2 changeover relay: 11, 12, 14 for the first CO contact and 21, 22, 24 for the second CO contact For outputs of timing relays, the function numbers change from .1 to .5, from .2 to .6 and from .4 to .8. The first CO contact is therefore designated 15, 16 and 18 for timing relays. Connection designation according to IEC 67: Common in the USA. In this case, the connections are numbered consecutively.	×	+		
	A relay with 4 CO contacts therefore has the numbers 1 to 14. It should be noted that numbers 11, 12 and 14 appear in both connection marking systems but have different functions. Instead of the coil connection markings A1 and A2, the terminal markings A and B are also commonly used. However, the connection designations according to IEC 67 are being used less and less frequently, which is why they are seen on fewer and fewer relay modules.				
Status indicator (input)	less and less frequently, which is why they are seen on fewer and fewer relay modules.				
Storage temperature	documentation. The permitted ambient temperature, related to a specific relative humidity level, for which the product should be stored while in a current-free state.	х	x		





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		for EMR	for SSR
Surge voltage category	The overvoltage category of a circuit or an electrical system is numbered conventionally (from I to IV) and is based on limiting the assumed surge voltage values that can occur in a circuit (or electrical system with different mains voltages). The assignment to a particular overvoltage category is dependent on the measures which are used to influence (reduce) the surge voltages.	x	X
	Overvoltage category I Devices that are intended to be connected to the permanent electrical building installation.		
	The measures for limiting transient surge voltages to the proper level are taken outside of the device. The protective mechanisms can either be in the permanent installation or between the permanent installation and the device.		
	Overvoltage category II Devices that are intended to be connected to the permanent electrical building installation (such as a household appliances or portable tools).		
	Overvoltage category III Devices that are a part of the permanent installation and other devices where a higher degree of availability is required. This includes the distributor panels, power switches, distribution systems (including cable, busbars, distributor boxes, switches and outlets) that are part of the permanent installation, devices intended for industrial use, and devices that are continually connected to the permanent installation (such as stationary motors).		
	Overvoltage category IV Devices that are intended to be used on or near the power feed in a building's electrical installation – ranging from the main distribution to the mains power system. This includes electrical meters, surge protection switches and ripple control equipment.		
Switch-off delay	Typical time interval from switching off the rated control voltage of a switched electromechanical relay and solid-state relay until the first opening or closing of the last output circuit (not including the bounce time). For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and an only briefly energised input (coil temperature below thermal stability). The switching times are strongly dependent on environmental parameters such as ambient temperature, mounting position, manufacturing tolerances, voltage	х	x
	level of the control signal and the shape of the control signal. Therefore, the values in the application may differ from the data sheet specifications.		



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		for EMR	for SSR
Switch-on delay	Typical time interval from switching on the rated control voltage of an electromechanical relay and solid-state relay until the first closing or opening of the last output circuit (not including the bounce time). For AC, specifications are valid for 50 Hz unless otherwise indicated. Measured at room temperature (approx. 23 °C) and coil temperature equal to room temperature. The switching times are strongly dependent on environmental parameters such as ambient temperature, mounting position, manufacturing tolerances, voltage level of the control signal and the shape of the control signal. Therefore, the	x	x
Switching cycle	values in the application may differ from the data sheet specifications. Describes the cycle of the switching state of response/switch-on and subsequent reset/switch-off of a relay or solid-state relay.	х	х
Switching voltage AC max. Switching voltage DC max.	Maximum permissible voltage with the standard mains tolerances between the switching contacts before closing and after opening a relay contact.	х	
Т			
Time ranges	List of the different adjustable time ranges of a timing relay. Mostly adjustable via rotary switch or dip switch.	х	х
Timing relay, multifunction timing relay	Electromechanical relay modules or solid-state relays that can switch with a time delay thanks to a time switch in the control input. Some timing relays can perform different time functions, which is why they are called multifunction timing relays.	х	х
Type code	The type code explains the composition of the article designation (type name). It allows for a large number of possible variations, but not all possible combinations can be found in the current product line, as some combinations cannot be implemented or some variants may be discontinued. Special versions are available on request to meet customer specifications.	х	x



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Type of contact	 NO con in its re NC con operatii CO con a comn previou closes. 	tact: Cor st position tact: Cor ng position tact: Cor non conr sly close	ntact whon, on, ntact whi on, ntact con nection (i	ich is closed ich is closed asisting of al root). When ct opens and	are specified and described: d in the relay's operating position and open d in the relay's rest position and open in its n NO contact and an NC contact with a changing the switch position, first the d then the previously opened contact nt designations for the contacts:	х	x		
		Short description	NARM designator	Circuit symbol					
	Make contact	NO	SPST-NO	Symbol					
	Break contact	NC	SPST-NC	4					
	Changeover contact	CO	SPDT	4					
				s, the contactiving example Circuit symbol					
	4 Changeover contacts	4 CO	4PDT	4 4 4					
					nally closed; CO: changeover; ole, double throw; DPST: double pole, single throw				
Type of insulation	 Quality of the insulation system, depending on the design and application conditions: Functional insulation: insulation between live components – necessary so the relay functions properly. Basic insulation: insulation of live parts to provide basic protection against electrical shock. Doubled insulation: consisting of a base insulation and additional insulation. Reinforced insulation: a single "enhanced" insulation of active components, which ensures the same protection against electric shock as doubled insulation. The doubled insulation is composed of a base insulation and an additional insulation; the extra insulation protects against electric shock if the basic insulation fails. 								



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		for	for				
U							
Utilisation category according to EN 60947 (mechanical relays)	The contactor standard EN 60947 divides loads into different utilisation categories, thereby making it possible to determine service life values for various applications. This standard is also partly applied to relays. However, users must be aware that even these values are only of limited practical use, as the test loads are often highly inductive and are operated without a protective circuit. More precise information on switching capacity and service life can be made on the basis of concrete application data. Explanation of the most important common categories for relay modules: AC1: Non-inductive or only weakly inductive load, e.g. heating elements AC14: Small electromagnetic loads (<72VA), e.g. small contactors AC15: Electromagnetic loads (>72VA), e.g. power contactors DC1: Non-inductive or only weakly inductive load, e.g. heating elements DC13: electromagnetic loads, e.g. solenoid valves	X					
V							
Voltage drop at max. load Voltage drop across the switched output of the solid-state relay, when measured under full load. This is due to the fact that semiconductor switches do not become as low-resistance as electromechanical switches. Therefore, when switched, they have more power loss compared to electromechanical relays.							
Z							
Zero-voltage switching, zero-cross switching	Solid-state relays with AC outputs such as triacs or thyristors which switch on at the zero crossing of the switching voltage and switch off at the zero crossing of the switching current. For this reason, the switching procedure may be delayed depending on the phase position at the time of switching and on the mains frequency of the switching voltage. Signal characteristics of zero cross switching PSSR shown at an example with resistive load U, I puput		x				
	t _{on} ≤10 ms t _{off} ≤10 ms						

W

EMR = Electromechanical relay SSR = Solid-state relay

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CRM40730T CRM40730TL	3053060000	B.121 B.121	DRH276110LT DRH276110LT	1220180000 1220180000	B.181 C.37	DRIKITP 24VDC 2CO LD DRIKITP 24VDC 2CO LD/PB	2576200000 2576190000	B.131 B.131	DRM270615L DRM270615LT	7760056066 7760056075	B.151 B.151
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CSI S 2CO	3052590000	B.116	DRH276220LT	1220190000	C.37	DRIKITP115VAC 2CO LD/PB	2576170000	B.131	DRM270730L	7760056067	B.151
CSM P 4CO CSM S 4CO	3053140000 3053160000	B.122 B.122	DRH276524LT DRH276524LT	1220200000 1220200000	B.181 C.37	DRIKITP230VAC 1CO LD/PB DRIKITP230VAC 2CO LD/PB	2576160000 2576150000	B.127 B.131	DRM270730LT DRM570012	7760056076 7760056078	B.151 B.155
CXI CCP 2P BL	3052660000	B.116	DRH276548LT	1220210000	B.181	DRL173012L	2765100000	B.165	DRM570012L	7760056087	B.155
CXI CCP 2P RD	3052650000	B.116	DRH276548LT	1220210000	C.37 B.181	DRL173012L	2765100000	C.21 B.165	DRM570012LT DRM570024	7760056096	B.155 B.155
CXI CCP 8P BL CXI CCP 8P RD	3052700000 3052690000	B.116 B.116	DRH276615LT DRH276615LT	1220220000 1220220000	C.37	DRL173024L DRL173024L	2765110000 2765110000	C.21	DRM570024L	7760056079 7760056088	B.155
CXI CCS 8P GY	3052620000	B.116	DRH276730LT	1220230000	B.181	DRL173048L	2765120000	B.165	DRM570024LD	7760056105	B.155
CXI CLIP HM CXI CLIP LM	3052640000 3052630000	B.116 B.116	DRH276730LT DRI314012	1220230000 7760056296	C.37 B.135	DRL173048L DRL173110L	2765120000 2765130000	C.21 B.165	DRM570024LT DRM570048	7760056097 7760056080	B.155 B.155
CXI CLIP LIVI	3052710000	B.116	DRI314012L	7760056303	B.135	DRL173110L	2765130000	C.21	DRM570048L	7760056089	B.155
CXM CCP 2P BL	3053230000	B.122	DRI314012LD	7760056310	B.135	DRL173220L	2765140000	B.165	DRM570048LT	7760056098	B.155
CXM CCP 2P RD CXM CCP 8P RD	3053220000 3053200000	B.122 B.122	DRI314012LTD DRI314024	7760056314 7760056297	B.135 B.135	DRL173220L DRL173524L	2765140000 2765370000	C.21 B.165	DRM570110 DRM570110L	7760056081 7760056090	B.155 B.155
CXM CCS 6P GY	3053180000	B.122	DRI314024L	7760056304	B.135	DRL173524L	2765370000	C.21	DRM570110LT	7760056099	B.155
CXM CLIP M	3053190000	B.122	DRI314024LD	7760056311	B.135	DRL173615L	2765380000	B.165	DRM570220	7760056082	B.155
CXM CLIP P CXX D 21N	3053240000 3053270000	B.122 B.122	DRI314024LTD DRI314048	7760056315 7760056298	B.135 B.135	DRL173615L DRL173730L	2765380000 2765390000	C.21 B.165	DRM570220L DRM570220LT	7760056091 7760056100	B.155 B.155
CXX JMP 2P BL	3053260000	B.122	DRI314048L	7760056305	B.135	DRL173730L	2765390000	C.21	DRM570524	7760056083	B.155
CXX JMP 2P RD CXX L 61G	3053250000 3053420000	B.122 B.122	DRI314048LD DRI314048LTD	7760056312 7760056316	B.135 B.135	DRL273012L DRL273012L	2765150000 2765150000	B.167 C.23	DRM570524L DRM570524LT	7760056092 7760056101	B.155 B.155
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DRW373012LT 2765640000 B.175 PWR173880L 1219150000 C.147 RIM 5 6/230VDC 1174650000 B.162 SDS 0.4X2.5X75 274 SDS 0.4X2.5X75 SDS 0.4X2											2749450000	C.145
DRW373012LT 2765640000 C.31 PWR276012L 1219540000 C.149 RIM 5 6/230VDC 1174650000 B.173 SDS 0.4X2.5X75 9.00 SDRW373024LT 2765650000 B.175 PWR276024L 1219560000 C.149 RIM 5 6/230VDC 1174650000 C.185 SDS 0.4X2.5X75 9.00 SDRW37304RLT 2765660000 B.175 PWR276024L 1219560000 C.149 RIM 5 6/230VDC 1174650000 C.38 SDS 0.4X2.5X75 9.00 SDRW37304RLT 2765660000 C.31 PWR276020L 1219560000 C.149 RIM 5 6/230VDC 1174650000 C.38 SDS 0.6X3.5X100 274 RIM 5 6/230VDC C.149 RIM 5 6/230VDC C.14											2749260000 2749320000	B.103 B.136
DRW373024LT 2765650000 B.175 PWR276024L 1219550000 C.149 RM 56/230VDC 1174650000 B.182 SDS 0.4X2.5X75 900 SDRW37304BLT 2765660000 B.175 PWR27604BL 1219550000 C.149 RM 56/230VDC 1174650000 C.29 SDS 0.4X2.5X75 900 SDRW37304BLT 2765660000 B.175 PWR2761BL 1219570000 C.149 RM 56/230VDC 1174650000 C.29 SDS 0.4X2.5X75 900 SDRW373304BLT 2765670000 B.175 PWR2761BL 1219570000 C.149 RSS110005 1984100000 B.98 SDS 0.6X3.5X100 274 SDRW3733110LT 2765670000 C.31 PWR27654L 1219160000 C.149 RSS110012 1984110000 B.98 SDS 0.6X3.5X100 274 SDRW373220LT 2765680000 B.175 PWR276615L 1219170000 C.149 RSS110060 1984120000 B.98 SDS 0.6X3.5X100 274 SDRW373524LT 2765540000 B.175 PWR27661SL 1219190000 C.149 RSS110060 1984120000 B.98 SDS 0.6X3.5X100 274 SDRW373524LT 2765540000 B.175 PWR276880L 1219120000 C.149 RSS110060 1984120000 B.98 SDS 0.6X3.5X100 274 SDRW373524LT 2765540000 B.175 PWR276880L 1219120000 C.149 RSS112005 1174540000 B.98 SDR 0.6X3.5X100 274 SDRW37354BLT 2765550000 B.175 PWR276880L 1219120000 C.149 RSS112005 1174540000 B.98 SDR 0.6X3.5X100 C.149 RSS112060 C.149 RSS112005 C.149 C.149 C.149 C.149 C.149 C.149	RW373012LT	2765640000	C.31				RIM 5 6/230VDC	1174650000			2749320000	B.140
DRW373048LT 2765660000 B.175 PWR276510L 1219570000 C.149 RIM 5 6/230VDC 1174650000 C.38 SDS 0.6X3.5X100 274 SDS 0.6X3.5X100 274 SDS 0.6X3.5X100 C.149 RIM 5 6/230VDC 174650000 C.38 SDS 0.6X3.5X100 C.149 RIM 5 6/230VDC 174650000 C.38 SDS 0.6X3.5X100 C.149 RIM 5 6/230VDC C.149 RIM 5 6/230VDC 174650000 C.38 SDS 0.6X3.5X100 C.149 RIM 5 6/230VDC C.149 RIM					1219550000					SDS 0.4X2.5X75	9009030000	B.152
DRW373048LT 2765670000 C.31 PWR276220L 1219580000 C.149 RSS110005 1984100000 B.98 SDS 0.6X3.5X100 274 2745670000 C.749 RSS110012 1984100000 B.98 SDS 0.6X3.5X100 274 2745670000 C.749 RSS110012 1984100000 B.98 SDS 0.6X3.5X100 C.749 RSS110012 C.749 RSS110012 1984100000 B.98 SDS 0.6X3.5X100 C.749 RSS110012 C.749 C.											9009030000 2749340000	B.156 B.103
DRW373110LT											2749340000	B.103
DRW373220LT 2765680000 B.175 PWR276615L 1219180000 C.149 RSS110060 1984120000 B.98 SDS 0.6X3.5X100 274 27657000 B.97 C.149 RSS11024T 276570000 B.98 SDS 0.6X3.5X100 274 C.149	RW373110LT	2765670000	B.175	PWR276524L	1219160000	C.149	RSS110012	1984110000	B.98	SDS 0.6X3.5X100	2749340000	C.145
DRW37322UIT 2765680000 C.31 PWR276730L 1219190000 C.149 RSS111024T 2851620000 B.98 SLD CLIP 3CO M 776											2749340000	C.150
DRW373524IT 2765540000 B.175 PWR276880L 121922000 C.149 RSS112005 1174540000 B.98 SLD CLIP 3CO M 776 7											2749340000 7760056234	C.151 B.172
DRW373548LT 2765540000 C.31 DRW373548LT 2765550000 B.175 DRW373548LT 2765550000 B.175 DRW373615LT 2765560000 B.175 DRW373615LT 2765560000 B.175 DRW373615LT 2765560000 B.175 DRW373615LT 2765560000 C.31 DRW373615LT 2765560000 B.175 DRW373615LT 2765570000 B.175 DRW373730LT 2765570000 B.175 DRW373615LT 2765570000 B.175 DRW373730LT 27			B.175				RSS112005		B.98		7760056234	C.28
DRW373548LT 2765550000 C.31 DRW373615LT 2765560000 B.175 DRW373615LT 2765560000 C.31 DRW373730LT 2765570000 B.175 DRW373730LT 2765570000 B.75 DRW373730LT DRW373730LT 2765570000 B.75 DRW373730LT DRW373730L				_						SLD CLIP 4CO M	7760056235	B.173
DRW373615LT 276556000 B.175 DR 75/62/15 DS 3520000 C.15 RSS113005 4061580000 B.98 SLD F 200 776				U							7760056235 7760056225	C.29 B.172
DRW373615LT 2765560000 C.31 RSS113012 4061610000 B.98 SLD F3C0 776 DRW373730LT 2765570000 B.175 P RSS113024 4060120000 B.98 SLD F3C0 776					0535200000	C.151					7760056225	C.28
	RW373615LT	2765560000	C.31				RSS113012	4061610000	B.98	SLD F 3C0	7760056226	B.172
				R							7760056226	C.28
<u>1100710021</u> 270070000 0.01					2723360000	B 77					7760056227 7760056227	B.173 C.29
											1220250000	

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SPW ECO 3CO	1220250000	C.38	TOP 230VAC/48VDC 0,5A	8951090000	C.45	TOS 12VDC 24VDC2A	1127150000	C.77	TRP 120VAC RC 1CO AU	2618030000	B.35
SRC-I QV S	1132070000	B.136	TOP 230VAC/48VDC 0.5A RC	1189260000	C.48	TOS 12VDC 48VDCO,1A	1126930000	B.79	TRP 120VAC RC 1CO AU	2618030000	C.51
SRC-I QV S SRD ECO 2CO	1132070000 1132810000	B.140 B.162	TOP 230VUC 230VAC1A TOP 230VUC 230VAC1A	2618450000 2618450000	B.87 C.79	TOS 12VDC 48VDC0,1A TOS 12VDC 48VDC0,1A	1126930000 1126930000	C.57 C.75	TRP 120VAC RC 1CO AU TRP 120VAC RC 1CO EMPTY	2618030000 2618880000	C.83 B.100
SRD ECO 3CO	1132820000	B.162	TOP 230VUC 24VDC2A	2618800000	B.83	TOS 12VDC/230VAC 0,1A	8951110000	C.47	TRP 120VAC RC 2C0	2618470000	B.63
SSR 10-32VDC/0-35VDC 5A	1421450000	B.99	TOP 230VUC 24VDC2A	2618800000	C.77	TOS 12VDC/230VAC 0,1A	8951110000	C.67	TRP 120VAC RC 2CO	2618470000	C.87
SSR 24VDC/0-24VDC 3,5A	1132310000	B.99	TOP 230VUC 48VDC0.1A	2618690000	B.79	TOS 12VDC/48VDC 0,1A	8950710000	C.43	TRP 120VAC RC 2CO AU	2618490000	B.67
SSR 24VDC/MAX.240VAC 1A SSS RELAIS 24V/230V 1AAC	1132290000 4061210000	B.99 B.99	TOP 230VUC 48VDC0.1A TOP 230VUC 48VDC0.1A	2618690000 2618690000	C.57 C.75	TOS 12VDC/48VDC 0,5A TOS 220VDC/230VAC 0,1A	8950910000 8951150000	C.45 C.47	TRP 120VAC RC 2CO AU TRP 120VAC RC 2CO AU	2618490000 2618490000	C.55 C.89
SSS RELAIS 24V/24V 0,1ADC	4061180000	B.99	TOP 24-230VUC 230VAC1A ED2	2663090000	B.88	TOS 220VDC/48VDC 0,1A	8950750000	C.43	TRP 120VAC RC 2C0 EMPTY	2681030000	B.101
SSS RELAIS 24V/24V 2ADC	4061190000	B.99	TOP 24-230VUC 24VDC2A ED2	2663080000	B.84	TOS 220VDC/48VDC 0,5A	8950950000	C.45	TRP 120VUC 1CO	2618010000	B.33
SSS RELAIS 5V/230V 1AAC	1132260000	B.99	TOP 24-230VUC 24VDC3,5A ED2	2663100000	B.90	TOS 230VAC RC 230VAC1A	1127490000	B.87	TRP 120VUC 1CO	2618010000	C.81
SSS RELAIS 5V/24V 0,1ADC SSS RELAIS 5V/24V 2ADC	4064320000 4064310000	B.99 B.99	TOP 24-230VUC 24VDC5A ED2 TOP 24-230VUC 48VDC0,1A ED2	2663150000 2663070000	B.91 B.80	TOS 230VAC RC 230VAC1A TOS 230VAC RC 24VDC2A	1127490000 1127240000	C.79 B.83	TRP 120VUC 1CO 16A TRP 120VUC 1CO 16A PB	2618280000 2988310000	B.57 B.51
SSS RELAIS 60V/230V 1AAC	4061220000	B.99	TOP 24-230VUC 48VDC0,1A ED2	2663070000	C.58	TOS 230VAC RC 24VDC2A	1127240000	C.77	TRP 120VUC 1CO AGSNO	2617900000	B.39
SSS RELAIS 60V/24V 0,1ADC	4061230000	B.99	TOP 24-230VUC EMPTY ED2	2663110000	B.101	TOS 230VAC RC 48VDC0,1A	1127010000	B.79	TRP 120VUC 1CO AGSNO	2617900000	C.85
SSS RELAIS 60V/24V 2ADC	4061200000	B.99	TOP 24VAC/230VAC 0,1A	8951260000	C.47	TOS 230VAC RC 48VDC0,1A	1127010000	C.57	TRP 120VUC 1CO AU	2618080000	B.35
-			TOP 24VAC/48VDC 0,1A TOP 24VAC/48VDC 0,5A	8950860000 8951060000	C.43 C.45	TOS 230VAC RC 48VDC0,1A TOS 230VAC/230VAC 0,1A	1127010000 8951250000	C.75 C.47	TRP 120VUC 1CO AU TRP 120VUC 1CO AU	2618080000 2618080000	C.51 C.83
			TOP 24VDC 230VAC1A	2618420000	B.87	TOS 230VAC/48VDC 0,1A	8950850000	C.43	TRP 120VUC 1CO EMPTY	2618950000	B.100
TCC 12.8/26 BK	2556500000	B.102	TOP 24VDC 230VAC1A	2618420000	C.79	TOS 230VAC/48VDC 0,5A	8951050000	C.45	TRP 120VUC 2C0	2618570000	B.63
TCC 12.8/26 BL	2556460000	B.102	TOP 24VDC 24VDC2A	2618720000	B.83	TOS 230VAC/48VDC 0.5A RC	1189270000	C.48	TRP 120VUC 2CO	2618570000	C.87
TCC 12.8/26 OR	2556380000	B.102	TOP 24VDC 24VDC2A	2618720000	C.77	TOS 230VUC 230VAC1A	1127470000	B.87	TRP 120VUC 2CO AU	2618590000	B.67
TCC 12.8/26 RD TCC 6.4/10 BK	2556420000 2556480000	B.102 B.102	TOP 24VDC 24VDC3.5A TOP 24VDC 24VDC5A	2618700000 2618840000	B.90 B.91	TOS 230VUC 230VAC1A TOS 230VUC 24VDC2A	1127470000 1127220000	C.79 B.83	TRP 120VUC 2CO AU TRP 120VUC 2CO AU	2618590000 2618590000	C.55 C.89
TCC 6.4/10 BL	2556440000	B.102	TOP 24VDC 48VDC0.1A	2618790000	B.79	TOS 230VUC 24VDC2A	1127220000	C.77	TRP 120VUC 2CO EMPTY	2681010000	B.101
TCC 6.4/10 OR	2556360000	B.102	TOP 24VDC 48VDC0.1A	2618790000	C.57	TOS 230VUC 48VDC0,1A	1126990000	B.79	TRP 120VUC 2CO PB	2988360000	B.71
TCC 6.4/10 RD	2556400000	B.102	TOP 24VDC 48VDC0.1A	2618790000	C.75	TOS 230VUC 48VDC0,1A	1126990000	C.57	TRP 12VDC 1CO	2618180000	B.33
TCC 6.4/2 BK TCC 6.4/2 BL	2556470000	B.102 B.102	TOP 24VDC ACT	2618750000 2618750000	B.85	TOS 230VUC 48VDC0,1A	1126990000	C.75	TRP 12VDC 1CO	2618180000 2618040000	C.81
TCC 6.4/2 OR	2556430000 2556350000	B.102	TOP 24VDC ACT TOP 24VDC EMPTY	2618740000	C.19 B.101	TOS 24-230VUC 230VAC1A ED2 TOS 24-230VUC 24VDC2A ED2	2662930000 2662920000	B.88 B.84	TRP 12VDC 1CO 16A TRP 12VDC 1CO AGSNO	2617860000	B.57 B.39
TCC 6.4/2 RD	2556390000	B.102	TOP 24VDC/230VAC 0,1A	8951180000	C.47	TOS 24-230VUC 24VDC3,5A ED2	2662940000	B.90	TRP 12VDC 1CO AGSNO	2617860000	C.85
TCC 6.4/51 BK	2556490000	B.102	TOP 24VDC/230VAC 0,1A	8951180000	C.67	TOS 24-230VUC 24VDC5A ED2	2662990000	B.91	TRP 12VDC 1CO AU	2618120000	B.35
TCC 6.4/51 BL	2556450000	B.102	TOP 24VDC/24VDC 4A	1254880000	C.14	TOS 24-230VUC 48VDC0,1A ED2	2662910000	B.80	TRP 12VDC 1CO AU	2618120000	C.51
TCC 6.4/51 OR TCC 6.4/51 RD	2556370000 2556410000	B.102 B.102	TOP 24VDC/48VDC 0,1A TOP 24VDC/48VDC 0.5A	8950780000 8950980000	C.43 C.45	TOS 24-230VUC 48VDC0,1A ED2 TOS 24-230VUC EMPTY ED2	2662910000 2662950000	C.58 B.101	TRP 12VDC 1CO AU TRP 12VDC 1CO EMPTY	2618120000 2618930000	C.83 B.100
TEST LEVER BLOCK DRH/DRW	7760056249	B.102	TOP 24VUC 230VAC1A	2618350000	B.87	TOS 24VAC/230VAC 0,1A	8951220000	C.47	TRP 12VDC 2CO	2618550000	B.63
TEST LEVER BLOCK DRH/DRW	7760056249	B.179	TOP 24VUC 230VAC1A	2618350000	C.79	TOS 24VAC/48VDC 0,1A	8950820000	C.43	TRP 12VDC 2CO	2618550000	C.87
TEST LEVER BLOCK DRH/DRW	7760056249	B.181	TOP 24VUC 24VDC2A	2618730000	B.83	TOS 24VAC/48VDC 0,5A	8951020000	C.45	TRP 12VDC 2CO AU	2618310000	B.67
TEST LEVER BLOCK DRH/DRW	7760056249	C.33	TOP 24VUC 24VDC2A	2618730000	C.77	TOS 24VDC 230VAC1A	1127410000	B.87	TRP 12VDC 2CO AU	2618310000	C.55
TEST LEVER BLOCK DRH/DRW TEST LEVER BLOCK DRH/DRW	7760056249 7760056249	C.35 C.37	TOP 24VUC 48VDC0.1A TOP 24VUC 48VDC0.1A	2618640000 2618640000	B.79 C.57	TOS 24VDC 230VAC1A TOS 24VDC 24VDC2A	1127410000 1127170000	C.79 B.83	TRP 12VDC 2CO AU TRP 12VDC 2CO EMPTY	2618310000 2680960000	C.89 B.101
TFIP 12-240VUC 1C0 CG	2898310000	C.99	TOP 24VUC 48VDC0.1A	2618640000	C.75	TOS 24VDC 24VDC2A	1127170000	C.77	TRP 230VAC RC 1C0	2618200000	B.33
TFIP 12-240VUC 1C0 M7C	2898320000	C.98	TOP 48-60VAC/230VAC 0,1A	8951270000	C.47	TOS 24VDC 24VDC3,5A	1127630000	B.90	TRP 230VAC RC 1C0	2618200000	C.81
TFIP 24-240VUC 1CO OFFC	2898330000	C.101	TOP 48-60VAC/48VDC 0,1A	8950870000	C.43	TOS 24VDC 24VDC5A	1990960000	B.91	TRP 230VAC RC 1CO 16A	2618190000	B.57
TFIP 24-240VUC 1CO ON	2898340000	C.100	TOP 48-60VAC/48VDC 0,5A TOP 48-60VDC/230VAC 0,1A	8951070000	C.45	TOS 24VDC 48VDC0,1A	1126940000	B.79 C.57	TRP 230VAC RC 1CO AGSNO TRP 230VAC RC 1CO AGSNO	2617850000	B.39
TFIS 12-240VUC 1C0 CG TFIS 12-240VUC 1C0 M7C	2697260000 2697250000	C.99 C.98	TOP 48-60VDC/48VDC 0,1A	8951190000 8950790000	C.47 C.43	TOS 24VDC 48VDCO,1A TOS 24VDC 48VDCO,1A	1126940000 1126940000	C.75	TRP 230VAC RC 1CO AU	2617850000 2617950000	C.85 B.35
TFIS 12-240VUC 2NO SD	2697270000	C.102	TOP 48-60VDC/48VDC 0,5A	8950990000	C.45	TOS 24VDC ACT	1391680000	B.85	TRP 230VAC RC 1C0 AU	2617950000	C.51
TFIS 24-240VUC 1CO OFFC	2697290000	C.101	TOP 48VUC 230VAC1A	2618460000	B.87	TOS 24VDC ACT	1391680000	C.19	TRP 230VAC RC 1C0 AU	2617950000	C.83
TFIS 24-240VUC 1CO ON TIA F10	2697280000	C.100 B.106	TOP 48VUC 230VAC1A TOP 48VUC 24VDC2A	2618460000 2618760000	C.79 B.83	TOS 24VDC EMPTY TOS 24VDC/230VAC 0,1A	1127720000 8951120000	B.101 C.47	TRP 230VAC RC 1C0 EMPTY	2618890000	B.100 B.63
TIA SUBD 15S	1463520000 1463530000	B.100	TOP 48VUC 24VDC2A	2618760000	C.77	TOS 24VDC/230VAC 0,1A	8951120000	C.67	TRP 230VAC RC 2C0 TRP 230VAC RC 2C0	2618330000 2618330000	C.87
TIAL F10	1463540000	B.108	TOP 48VUC 48VDC0.1A	2618710000	B.79	TOS 24VDC/24VDC 4A	1275100000	C.14	TRP 230VAC RC 2CO AU	2618500000	B.67
TIAL F20	1463550000	B.109	TOP 48VUC 48VDC0.1A	2618710000	C.57	TOS 24VDC/48VDC 0,1A	8950720000	C.43	TRP 230VAC RC 2CO AU	2618500000	C.55
TOP 110VDC/230VAC 0,1A	8951200000	C.47	TOP 48VUC 48VDC0.1A	2618710000	C.75	TOS 24VDC/48VDC 0,5A	8950920000	C.45	TRP 230VAC RC 2CO AU	2618500000	C.89
TOP 110VDC/48VDC 0,1A TOP 110VDC/48VDC 0,5A	8950800000 8951000000	C.43 C.45	TOP 5VDC 230VAC1A TOP 5VDC 230VAC1A	2614850000 2614850000	B.87 C.79	TOS 24VUC 230VAC1A TOS 24VUC 230VAC1A	1127420000 1127420000	B.87 C.79	TRP 230VAC RC 2CO EMPTY TRP 230VUC 1CO	2681190000 2618050000	B.101 B.33
TOP 120VAC RC 230VAC1A	2618390000	B.87	TOP 5VDC 24VDC2A	2618810000	B.83	TOS 24VUC 24VDC2A	1127180000	B.83	TRP 230VUC 1C0	2618050000	C.81
TOP 120VAC RC 230VAC1A	2618390000	C.79	TOP 5VDC 24VDC2A	2618810000	C.77	TOS 24VUC 24VDC2A	1127180000	C.77	TRP 230VUC 1CO 16A	2618260000	B.57
TOP 120VAC RC 24VDC2A	2618660000	B.83	TOP 5VDC 48VDC0.1A	2614860000	B.79	TOS 24VUC 48VDC0,1A	1126950000	B.79	TRP 230VUC 1CO 16A PB	2988320000	B.51
TOP 120VAC RC 24VDC2A TOP 120VAC RC 48VDC0.1A	2618660000 2618650000	C.77 B.79	TOP 5VDC 48VDC0.1A TOP 5VDC 48VDC0.1A	2614860000 2614860000	C.57 C.75	TOS 24VUC 48VDC0,1A TOS 24VUC 48VDC0,1A	1126950000 1126950000	C.57 C.75	TRP 230VUC 1CO AGSNO TRP 230VUC 1CO AGSNO	2617830000 2617830000	B.39 C.85
TOP 120VAC RC 48VDC0.1A	2618650000	C.57	TOP 5VDC/230VAC 0,1A	8951160000	C.47	TOS 48-60VAC/230VAC 0,1A	8951230000	C.47	TRP 230VUC 1CO AU	2618210000	B.35
TOP 120VAC RC 48VDC0.1A	2618650000	C.75	TOP 5VDC/230VAC 0,1A	8951160000	C.67	TOS 48-60VAC/48VDC 0,1A	8950830000	C.43	TRP 230VUC 1CO AU	2618210000	C.51
TOP 120VAC/230VAC 0,1A	8951280000	C.47	TOP 5VDC/48VDC 0,1A	8950760000	C.43	TOS 48-60VAC/48VDC 0,5A	8951030000	C.45	TRP 230VUC 1CO AU	2618210000	C.83
TOP 120VAC/48VDC 0,1A	8950880000 8951080000	C.43 C.45	TOP 5VDC/48VDC 0,5A	8950960000 2618370000	C.45	TOS 48-60VDC/230VAC 0,1A TOS 48-60VDC/48VDC 0,1A	8951130000	C.47 C.43	TRP 230VUC 1CO EMPTY	2618960000	B.100
TOP 120VAC/48VDC 0,5A TOP 120VAC/48VDC 0.5A RC	1188830000	C.48	TOP 60VUC 230VAC1A TOP 60VUC 230VAC1A	2618370000	B.87 C.79	TOS 48-60VDC/48VDC 0.5A	8950730000 8950930000	C.45	TRP 230VUC 2C0 TRP 230VUC 2C0	2618440000 2618440000	B.63 C.87
TOP 120VUC 230VAC1A	2618480000	B.87	TOP 60VUC 24VDC2A	2618970000	B.83	TOS 48VUC 230VAC1A	1127430000	B.87	TRP 230VUC 2CO AU	2618300000	B.67
TOP 120VUC 230VAC1A	2618480000	C.79	TOP 60VUC 24VDC2A	2618970000	C.77	TOS 48VUC 230VAC1A	1127430000	C.79	TRP 230VUC 2CO AU	2618300000	C.55
TOP 120VUC 24VDC2A	2618770000	B.83	TOP 60VUC 48VDC0.1A	2614880000	B.79	TOS 48VUC 24VDC2A	1127190000	B.83	TRP 230VUC 2CO AU	2618300000	C.89
TOP 120VUC 24VDC2A TOP 120VUC 48VDC0.1A	2618770000 2618680000	C.77 B.79	TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A	2614880000 2614880000	C.57 C.75	TOS 48VUC 24VDC2A TOS 48VUC 48VDC0,1A	1127190000 1126960000	C.77 B.79	TRP 230VUC 2CO EMPTY TRP 230VUC 2CO PB	2681020000 2988370000	B.101 B.71
TOP 120VUC 48VDC0.1A	2618680000	C.57	TOPL 24-110VDC 5-110VDC0.25A TRAK		B.29	TOS 48VUC 48VDCO,1A	1126960000	C.57	TRP 24-230VUC 1CO 16A ED2	2663120000	B.58
TOP 120VUC 48VDC0.1A	2618680000	C.75	TOS 110VDC/230VAC 0,1A	8951140000	C.47	TOS 48VUC 48VDCO,1A	1126960000	C.75	TRP 24-230VUC 1CO 16A ED2 PB	2988330000	B.52
TOP 12VDC 230VAC1A	2618380000	B.87	TOS 110VDC/48VDC 0,1A	8950740000	C.43	TOS 5VDC 230VAC1A	1127390000	B.87	TRP 24-230VUC 1CO AGSNO AU ED2 PB		B.48
TOP 12VDC 230VAC1A TOP 12VDC 24VDC2A	2618380000 2618820000	C.79 B.83	TOS 110VDC/48VDC 0,5A TOS 120VAC RC 230VAC1A	8950940000 1127480000	C.45 B.87	TOS 5VDC 230VAC1A TOS 5VDC 24VDC2A	1127390000 1127140000	C.79 B.83	TRP 24-230VUC 1CO AGSNO ED2 TRP 24-230VUC 1CO AGSNO ED2 PB	2663160000 2855910000	B.40 B.44
TOP 12VDC 24VDC2A	2618820000	C.77	TOS 120VAC RC 230VAC1A	1127480000	C.79	TOS 5VDC 24VDC2A	1127140000	C.77	TRP 24-230VUC 1CO AU ED2	2663020000	B.37
TOP 12VDC 48VDCO.1A	2618600000	B.79	TOS 120VAC RC 24VDC2A	1127230000	B.83	TOS 5VDC 48VDCO,1A	1126920000	B.79	TRP 24-230VUC 1CO AU ED2	2663020000	C.52
TOP 12VDC 48VDCO.1A	2618600000	C.57	TOS 120VAC RC 24VDC2A	1127230000	C.77	TOS 5VDC 48VDCO,1A	1126920000	C.57	TRP 24-230VUC 1C0 ED2	2663010000	B.36
TOP 12VDC 48VDC0.1A TOP 12VDC/230VAC 0,1A	2618600000 8951170000	C.75 C.47	TOS 120VAC RC 48VDC0,1A TOS 120VAC RC 48VDC0,1A	1127000000 1127000000	B.79 C.57	TOS 5VDC 48VDC0,1A TOS 5VDC/230VAC 0,1A	1126920000 8951100000	C.75 C.47	TRP 24-230VUC 1C0 EMPTY ED2 TRP 24-230VUC 1N0 HC ED2	2663030000 2663130000	B.100 B.60
TOP 12VDC/230VAC 0,1A	8951170000	C.67	TOS 120VAC RC 48VDC0,1A	1127000000	C.75	TOS 5VDC/230VAC 0,1A	8951100000	C.67	TRP 24-230VUC 1NO HC ED2	2663130000	C.16
TOP 12VDC/48VDC 0,1A	8950770000	C.43	TOS 120VAC/230VAC 0,1A	8951240000	C.47	TOS 5VDC/48VDC 0,1A	8950700000	C.43	TRP 24-230VUC 1NO HCP ED2	2663140000	B.61
TOP 12VDC/48VDC 0,5A	8950970000	C.45	TOS 120VAC/48VDC 0,1A	8950840000	C.43	TOS 5VDC/48VDC 0,5A	8950900000	C.45	TRP 24-230VUC 1NO HCP ED2	2663140000	C.17
TOP 220VDC/230VAC 0,1A	8951210000	C.47	TOS 120VAC/48VDC 0,5A	8951040000	C.45	TOS 60VUC 230VAC1A	1127440000	B.87	TRP 24-230VUC 2C0 AU ED2	2663050000	B.68
TOP 220VDC/48VDC 0,1A TOP 220VDC/48VDC 0,5A	8950810000 8951010000	C.43 C.45	TOS 120VAC/48VDC 0.5A RC TOS 120VUC 230VAC1A	1180290000 1127450000	C.48 B.87	TOS 60VUC 230VAC1A TOS 60VUC 24VDC2A	1127440000 1127200000	C.79 B.83	TRP 24-230VUC 2C0 AU ED2 TRP 24-230VUC 2C0 ED2	2663050000 2663040000	C.53 B.64
TOP 230VAC RC 230VAC1A	2618430000	B.87	TOS 120VUC 230VAC1A	1127450000	C.79	TOS 60VUC 24VDC2A	1127200000	C.77	TRP 24-230VUC 2C0 ED2 PB	2988380000	B.72
TOP 230VAC RC 230VAC1A	2618430000	C.79	TOS 120VUC 24VDC2A	1127210000	B.83	TOS 60VUC 48VDC0,1A	1126970000	B.79	TRP 24-230VUC 2CO EMPTY ED2	2663060000	B.101
TOP 230VAC RC 24VDC2A	2618670000	B.83	TOS 120VUC 24VDC2A	1127210000	C.77	TOS 60VUC 48VDCO,1A	1126970000	C.57	TRP 24VDC 1CO	2618000000	B.33
TOP 230VAC RC 24VDC2A TOP 230VAC RC 48VDC0.1A	2618670000 2618620000	C.77 B.79	TOS 120VUC 48VDCO,1A TOS 120VUC 48VDCO,1A	1126980000 1126980000	B.79 C.57	TOS 60VUC 48VDCO,1A TRP 120VAC RC 1CO	1126970000 2618150000	C.75 B.33	TRP 24VDC 1CO TRP 24VDC 1CO 16A	2618000000 2618100000	C.81 B.57
TOP 230VAC RC 48VDC0.1A	2618620000	C.57	TOS 120VUC 48VDCO,1A	1126980000	C.75	TRP 120VAC RC 1CO	2618150000	C.81	TRP 24VDC 1CO 16A PB	2988280000	B.57
TOP 230VAC RC 48VDC0.1A	2618620000	C.75	TOS 12VDC 230VAC1A	1127400000	B.87	TRP 120VAC RC 1CO 16A	2618270000	B.57	TRP 24VDC 1CO AGSNO	2618020000	B.39
TOP 230VAC/230VAC 0,1A	8951290000	C.47	TOS 12VDC 230VAC1A	1127400000	C.79	TRP 120VAC RC 1CO AGSNO	2617840000	B.39	TRP 24VDC 1CO AGSNO	2618020000	C.85
TOP 230VAC/48VDC 0,1A	8950890000	C.43	TOS 12VDC 24VDC2A	1127150000	B.83	TRP 120VAC RC 1CO AGSNO	2617840000	C.85	TRP 24VDC 1CO AGSNO AU PB	2855830000	B.47

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Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page
TRP 24VDC 1CO AGSNO PB	2855800000	B.43	TRPL 24-230VUC 1C0	2773860000	B.8	TRS 230VUC 2CO AU	1123790000	C.55	TRS 5VDC 2CO	1123470000	B.63
TRP 24VDC 1CO AU TRP 24VDC 1CO AU	2618110000 2618110000	B.35 C.51	TRPL 24-230VUC 1NO TRPL 24-230VUC 2CO	2773870000 2773880000	B.12 B.16	TRS 230VUC 2CO AU TRS 230VUC 2CO EMPTY	1123790000 1124030000	C.89 B.101	TRS 5VDC 2CO TRS 5VDC 2CO AU	1123470000 1123710000	C.87 B.67
TRP 24VDC 1CO AU	2618110000	C.83	TRPL 24VDC 1CO	2773890000	B.7	TRS 230VUC 2CO PB	2988470000	B.71	TRS 5VDC 2CO AU	1123710000	C.55
TRP 24VDC 1CO EMPTY TRP 24VDC 1NO HC	2618870000 2618090000	B.100 B.60	TRPL 24VDC 1CO AU TRAK TRPL 24VDC 1CO TRAK	2773900000 2773910000	B.25 B.23	TRS 24-230VUC 1CO 16A ED2 TRS 24-230VUC 1CO 16A ED2 PB	2662960000 2988430000	B.58 B.52	TRS 5VDC 2CO AU TRS 5VDC 2CO EMPTY	1123710000 1123950000	C.89 B.101
TRP 24VDC 1NO HC TRP 24VDC 1NO HCP	2618090000 2617930000	C.16 B.61	TRPL 24VDC 1NO TRPL 24VDC 1NO F	2773920000 2773930000	B.11 B.19	TRS 24-230VUC 1CO AGSNO AU ED2 P TRS 24-230VUC 1CO AGSNO ED2	B 2855920000 2663000000	B.48 B.40	TRS 60VUC 1CO TRS 60VUC 1CO	1122800000 1122800000	B.33 C.81
TRP 24VDC 1NO HCP	2617930000	C.17	TRPL 24VDC 1NO TRAK	2773940000	B.27	TRS 24-230VUC 1CO AGSNO ED2 PB	2855930000	B.44	TRS 60VUC 1CO 16A	1479710000	B.57
TRP 24VDC 2C0 TRP 24VDC 2C0	2618400000 2618400000	B.63 C.87	TRPL 24VDC 2CO TRPL 24VUC 1CO	2773960000 2773970000	B.15 B.7	TRS 24-230VUC 1CO AU ED2 TRS 24-230VUC 1CO AU ED2	2662860000 2662860000	B.37 C.52	TRS 60VUC 1CO AGSNO TRS 60VUC 1CO AGSNO	2153550000 2153550000	B.39 C.85
TRP 24VDC 2CO AU	2618530000	B.67	TRPL 24VUC 1NO	2773980000	B.11	TRS 24-230VUC 1CO C1D2	1984610000	B.93	TRS 60VUC 1CO AU	1123030000	B.35
TRP 24VDC 2CO AU TRP 24VDC 2CO AU	2618530000 2618530000	C.55 C.89	TRPL 24VUC 2CO TRPL 48-110VDC 1CO AU TRAK	2773990000 2774000000	B.15 B.25	TRS 24-230VUC 1C0 ED2 TRS 24-230VUC 1C0 EMPTY ED2	2662850000 2662870000	B.36 B.100	TRS 60VUC 1CO AU TRS 60VUC 1CO AU	1123030000 1123030000	C.51 C.83
TRP 24VDC 2CO EMPTY	2680970000	B.101	TRPL 48-110VDC 1CO TRAK	2774010000	B.23	TRS 24-230VUC 1COAUC1D2	1984650000	B.95	TRS 60VUC 1CO EMPTY	1123280000	B.100
TRP 24VDC 2CO PB TRP 24VDC ACT	2988340000 2618230000	B.71 B.54	TRPL 48-110VDC 1NO TRAK TRPL 5VDC 1CO	2774020000 2774030000	B.27 B.7	TRS 24-230VUC 1NO HC ED2 TRS 24-230VUC 1NO HC ED2	2662970000 2662970000	B.60 C.16	TRS 60VUC 2CO TRS 60VUC 2CO	1123520000 1123520000	B.63 C.87
TRP 24VDC ACT TRP 24VDC ACT PB	2618230000 2855840000	C.18 B.54	TRPL 5VDC 1NO TRPL 5VDC 2CO	2774040000 2774050000	B.11 B.15	TRS 24-230VUC 1NO HCP ED2 TRS 24-230VUC 1NO HCP ED2	2662980000 2662980000	B.61 C.17	TRS 60VUC 2CO AU TRS 60VUC 2CO AU	1123770000 1123770000	B.67 C.55
TRP 24VDC ACT PB	2855840000	C.18	TRS 120VAC RC 1CO	1122830000	B.33	TRS 24-230VUC 2CO AU ED2	2662890000	B.68	TRS 60VUC 2CO AU	1123770000	C.89
TRP 24VUC 1C0 TRP 24VUC 1C0	2618220000 2618220000	B.33 C.81	TRS 120VAC RC 1C0 TRS 120VAC RC 1C0 16A	1122830000 1479750000	C.81 B.57	TRS 24-230VUC 2CO AU ED2 TRS 24-230VUC 2CO ED2	2662890000 2662880000	C.53 B.64	TRS 60VUC 2CO EMPTY TRS T 24VDC 1CO M3	1124010000 2639560000	B.101 B.74
TRP 24VUC 1CO 16A	2617910000	B.57	TRS 120VAC RC 1CO AGSNO	2152900000	B.39	TRS 24-230VUC 2CO ED2 PB	2988480000	B.72	TRS T 24VDC 1C0 M3	2639560000	C.94
TRP 24VUC 1CO 16A PB TRP 24VUC 1CO AGSNO	2988300000 2617880000	B.51 B.39	TRS 120VAC RC 1CO AGSNO TRS 120VAC RC 1CO AU	2152900000 1123070000	C.85 B.35	TRS 24-230VUC 2CO EMPTY ED2 TRS 24VDC 1CO	2662900000 1122770000	B.101 B.33	TRS T 24VDC 1C0 M3 EMPTY TRS T 24VDC 1C0 M3 EMPTY	2639720000 2639720000	B.75 C.95
TRP 24VUC 1CO AGSNO	2617880000	C.85	TRS 120VAC RC 1CO AU	1123070000	C.51	TRS 24VDC 1CO	1122770000	C.81	TW TXS/TXZ R3.2	1240800000	B.103
TRP 24VUC 1CO AGSNO AU PB TRP 24VUC 1CO AGSNO PB	2855820000 2855810000	B.47 B.43	TRS 120VAC RC 1CO AU TRS 120VAC RC 1CO EMPTY	1123070000 1123310000	C.83 B.100	TRS 24VDC 1CO 16A TRS 24VDC 1CO 16A PB	1479680000 2988390000	B.57 B.51	TXL PP TXP SUPPLY	2774090000 2618940000	B.103 B.102
TRP 24VUC 1CO AU	2618160000	B.35	TRS 120VAC RC 2C0	1123550000	B.63	TRS 24VDC 1CO AGSNO	1984540000	B.39	TXPL FT	2774080000	B.102
TRP 24VUC 1CO AU TRP 24VUC 1CO AU	2618160000 2618160000	C.51 C.83	TRS 120VAC RC 2CO TRS 120VAC RC 2CO AU	1123550000 1123800000	C.87 B.67	TRS 24VDC 1CO AGSNO TRS 24VDC 1CO AGSNO AU PB	1984540000 2855860000	C.85 B.47	TXPL S TXS SUPPLY	2774100000 1240780000	B.102 B.102
TRP 24VUC 1CO EMPTY TRP 24VUC 2CO	2618910000 2618320000	B.100 B.63	TRS 120VAC RC 2CO AU TRS 120VAC RC 2CO AU	1123800000 1123800000	C.55 C.89	TRS 24VDC 1CO AGSNO PB TRS 24VDC 1CO AU	2855870000 1123000000	B.43 B.35	14/		
TRP 24VUC 2CO	2618320000	C.87	TRS 120VAC RC 2CO EMPTY	1124040000	B.101	TRS 24VDC 1CO AU	1123000000	C.51	W		
TRP 24VUC 2CO AU TRP 24VUC 2CO AU	2618540000 2618540000	B.67 C.55	TRS 120VACRC 1C0 C1D2 TRS 120VACRC 1C0AU C1D2	1984590000 1984640000	B.93 B.95	TRS 24VDC 1CO AU TRS 24VDC 1CO C1D2	1123000000 1984570000	C.83 B.93	WEW 35/2 WEW 35/2 SW	1061200000 1061210000	B.196 C.151
TRP 24VUC 2CO AU	2618540000	C.89	TRS 120VUC 2CO	1123530000	B.63	TRS 24VDC 1CO EMPTY	1123240000	B.100	WS 10/12 MC NE WS	1905970000	B.103
TRP 24VUC 2CO EMPTY TRP 24VUC 2CO FG	2680980000 2706430000	B.101 B.77	TRS 120VUC 2C0 TRS 120VUC 1C0	1123530000 1122810000	C.87 B.33	TRS 24VDC 1COAU C1D2 TRS 24VDC 1NO HC	1984630000 1479780000	B.95 B.60	WS 10/6 M MC NE WS WS 10/6 MC NE WS	1818400000 1828450000	B.103 B.196
TRP 24VUC 2CO FG	2706430000	C.135	TRS 120VUC 1CO	1122810000	C.81	TRS 24VDC 1NO HC	1479780000	C.16	WS 12/6 MC NE WS	1609900000	C.150
TRP 24VUC 2CO PB TRP 48VUC 1CO	2988350000 2618240000	B.71 B.33	TRS 120VUC 1CO 16A TRS 120VUC 1CO 16A PB	1479730000 2988410000	B.57 B.51	TRS 24VDC 1NO HCP TRS 24VDC 1NO HCP	1479810000 1479810000	B.61 C.17	WS 12/6 MC NE WS	1609900000	C.151
TRP 48VUC 1CO	2618240000	C.81	TRS 120VUC 1CO AGSNO	2153570000	B.39	TRS 24VDC 2CO	1123490000	B.63	Z		
TRP 48VUC 1CO 16A TRP 48VUC 1CO AGSNO	2617960000 2617890000	B.57 B.39	TRS 120VUC 1CO AGSNO TRS 120VUC 1CO AU	2153570000 1123040000	C.85 B.35	TRS 24VDC 2CO TRS 24VDC 2CO AU	1123490000 1123730000	C.87 B.67	ZQV 4N/10	1528090000	B.196
TRP 48VUC 1CO AGSNO	2617890000	C.85	TRS 120VUC 1CO AU	1123040000	C.51	TRS 24VDC 2CO AU	1123730000	C.55	Z0V 4N/10	1528090000	C.150
TRP 48VUC 1CO AU TRP 48VUC 1CO AU	2618170000 2618170000	B.35 C.51	TRS 120VUC 1CO AU TRS 120VUC 1CO EMPTY	1123040000 1123290000	C.83 B.100	TRS 24VDC 2CO AU TRS 24VDC 2CO EMPTY	1123730000 1123980000	C.89 B.101	ZQV 4N/10 ZQV 4N/10 BK	1528090000 2810830000	C.151 B.196
TRP 48VUC 1CO AU TRP 48VUC 1CO EMPTY	2618170000 2618920000	C.83 B.100	TRS 120VUC 2CO AU TRS 120VUC 2CO AU	1123780000 1123780000	B.67 C.55	TRS 24VDC 2CO PB TRS 24VDC ACT	2988440000 1381900000	B.71 B.54	ZQV 4N/10 BK ZQV 4N/10 BK	2810830000 2810830000	C.150 C.151
TRP 48VUC 2CO	2618520000	B.63	TRS 120VUC 2CO AU	1123780000	C.89	TRS 24VDC ACT	1381900000	C.18	ZQV 4N/10 BL	1528230000	B.196
TRP 48VUC 2CO TRP 48VUC 2CO AU	2618520000 2618560000	C.87 B.67	TRS 120VUC 2C0 EMPTY TRS 120VUC 2C0 PB	1124020000 2988460000	B.101 B.71	TRS 24VDC ACT PB TRS 24VDC ACT PB	2855850000 2855850000	B.54 C.18	ZQV 4N/10 BL ZQV 4N/10 BL	1528230000 1528230000	C.150 C.151
TRP 48VUC 2CO AU	2618560000	C.55	TRS 12VDC 1CO	1122750000	B.33	TRS 24VUC 1CO	1122780000	B.33	ZQV 4N/10 RD	2460740000	B.196
TRP 48VUC 2CO AU TRP 48VUC 2CO EMPTY	2618560000 2680990000	C.89 B.101	TRS 12VDC 1CO TRS 12VDC 1CO 16A	1122750000 1479670000	C.81 B.57	TRS 24VUC 1CO TRS 24VUC 1CO 16A	1122780000 1479690000	C.81 B.57	ZQV 4N/10 RD ZQV 4N/10 RD	2460740000 2460740000	C.150 C.151
TRP 5VDC 1CO TRP 5VDC 1CO	2614830000 2614830000	B.33 C.81	TRS 12VDC 1CO AGSNO TRS 12VDC 1CO AGSNO	2152880000 2152880000	B.39 C.85	TRS 24VUC 1CO 16A PB TRS 24VUC 1CO AGSNO	2988400000 2152940000	B.51 B.39	ZQV 4N/2 ZQV 4N/2	1527930000 1527930000	B.196 C.150
TRP 5VDC 1CO 16A	2618130000	B.57	TRS 12VDC 1CO AU	1122990000	B.35	TRS 24VUC 1CO AGSNO	2152940000	C.85	ZQV 4N/2	1527930000	C.151
TRP 5VDC 1CO AGSNO TRP 5VDC 1CO AGSNO	2614820000 2614820000	B.39 C.85	TRS 12VDC 1CO AU TRS 12VDC 1CO AU	1122990000 1122990000	C.51 C.83	TRS 24VUC 1CO AGSNO AU PB TRS 24VUC 1CO AGSNO PB	2855880000 2855890000	B.47 B.43	ZQV 4N/2 BK ZQV 4N/2 BK	2810840000 2810840000	B.196 C.150
TRP 5VDC 1CO AU	2618060000	B.35	TRS 12VDC 1CO C1D2	1984560000	B.93	TRS 24VUC 1CO AU	1123010000	B.35	ZQV 4N/2 BK	2810840000	C.151
TRP 5VDC 1CO AU TRP 5VDC 1CO AU	2618060000 2618060000	C.51 C.83	TRS 12VDC 1CO EMPTY TRS 12VDC 1COAU C1D2	1123230000 1984620000	B.100 B.95	TRS 24VUC 1CO AU TRS 24VUC 1CO AU	1123010000 1123010000	C.51 C.83	ZQV 4N/2 BL ZQV 4N/2 BL	1528040000 1528040000	B.196 C.150
TRP 5VDC 1CO EMPTY	2614870000	B.100	TRS 12VDC 2CO	1123480000	B.63	TRS 24VUC 1CO C1D2	1984580000	B.93	ZQV 4N/2 BL ZQV 4N/2 RD	1528040000	C.151
TRP 5VDC 2CO TRP 5VDC 2CO	2614840000 2614840000	B.63 C.87	TRS 12VDC 2CO TRS 12VDC 2CO AU	1123480000 1123720000	C.87 B.67	TRS 24VUC 1CO EMPTY TRS 24VUC 2CO	1123250000 1123500000	B.100 B.63	ZQV 4N/2 RD	2460450000 2460450000	B.196 C.150
TRP 5VDC 2CO AU TRP 5VDC 2CO AU	2618580000 2618580000	B.67 C.55	TRS 12VDC 2CO AU TRS 12VDC 2CO AU	1123720000 1123720000	C.55 C.89	TRS 24VUC 2CO TRS 24VUC 2CO AU	1123500000 1123740000	C.87 B.67	ZQV 4N/2 RD ZQV 4N/20	2460450000 2883800000	C.151 B.196
TRP 5VDC 2CO AU	2618580000	C.89	TRS 12VDC 2CO EMPTY	1123970000	B.101	TRS 24VUC 2CO AU	1123740000	C.55	ZQV 4N/20	2883800000	C.150
TRP 5VDC 2CO EMPTY TRP 60VUC 1CO	2680850000 2618140000	B.101 B.33	TRS 230VAC RC 1CO TRS 230VAC RC 1CO	1122840000 1122840000	B.33 C.81	TRS 24VUC 2CO AU TRS 24VUC 2CO EMPTY	1123740000 1123990000	C.89 B.101	ZQV 4N/20 ZQV 4N/20 BK	2883800000 2810870000	C.151 B.196
TRP 60VUC 1CO	2618140000	C.81	TRS 230VAC RC 1CO 16A	1479760000	B.57	TRS 24VUC 2CO FG	2706290000	B.77	ZQV 4N/20 BK	2810870000	C.150
TRP 60VUC 1CO 16A TRP 60VUC 1CO AGSNO	2617970000 2617870000	B.57 B.39	TRS 230VAC RC 1CO AGSNO TRS 230VAC RC 1CO AGSNO	2152920000 2152920000	B.39 C.85	TRS 24VUC 2CO FG TRS 24VUC 2CO PB	2706290000 2988450000	C.135 B.71	ZQV 4N/20 BK ZQV 4N/3	2810870000 1527940000	C.151 B.196
TRP 60VUC 1CO AGSNO TRP 60VUC 1CO AU	2617870000 2618070000	C.85 B.35	TRS 230VAC RC 1CO AU TRS 230VAC RC 1CO AU	1123080000 1123080000	B.35 C.51	TRS 48VUC 1CO TRS 48VUC 1CO	1122790000 1122790000	B.33 C.81	ZQV 4N/3 ZQV 4N/3	1527940000 1527940000	C.150 C.151
TRP 60VUC 1CO AU	2618070000	C.51	TRS 230VAC RC 1CO AU	1123080000	C.83	TRS 48VUC 1CO 16A	1479700000	B.57	ZQV 4N/3 BK	2810880000	B.196
TRP 60VUC 1CO AU TRP 60VUC 1CO EMPTY	2618070000 2618900000	C.83 B.100	TRS 230VAC RC 1CO EMPTY TRS 230VAC RC 2CO	1123320000 1123570000	B.100 B.63	TRS 48VUC 1CO AGSNO TRS 48VUC 1CO AGSNO	2153060000 2153060000	B.39 C.85	ZQV 4N/3 BK ZQV 4N/3 BK	2810880000 2810880000	C.150 C.151
TRP 60VUC 2CO	2618290000	B.63	TRS 230VAC RC 2CO	1123570000	C.87	TRS 48VUC 1CO AU	1123020000	B.35	ZQV 4N/3 BL	1528080000	B.196
TRP 60VUC 2CO TRP 60VUC 2CO AU	2618290000 2618360000	C.87 B.67	TRS 230VAC RC 2CO AU TRS 230VAC RC 2CO AU	1123810000 1123810000	B.67 C.55	TRS 48VUC 1CO AU TRS 48VUC 1CO AU	1123020000 1123020000	C.51 C.83	ZQV 4N/3 BL ZQV 4N/3 BL	1528080000 1528080000	C.150 C.151
TRP 60VUC 2CO AU	2618360000	C.55	TRS 230VAC RC 2CO AU	1123810000	C.89	TRS 48VUC 1CO EMPTY	1123270000	B.100	ZOV 4N/3 RD	2460810000	B.196
TRP 60VUC 2CO AU TRP 60VUC 2CO EMPTY	2618360000 2681000000	C.89 B.101	TRS 230VAC RC 2CO EMPTY TRS 230VACRC 1CO C1D2	1124050000 1984600000	B.101 B.93	TRS 48VUC 2CO TRS 48VUC 2CO	1123510000 1123510000	B.63 C.87	ZQV 4N/3 RD ZQV 4N/3 RD	2460810000 2460810000	C.150 C.151
TRP T 24VDC 1C0 M3	2639730000	B.74	TRS 230VUC 2C0	1123540000	B.63	TRS 48VUC 2CO AU	1123750000	B.67	ZOV 4N/4	1527970000	B.196
TRP T 24VDC 1CO M3 TRP T 24VDC 1CO M3 EMPTY	2639730000 2639740000	C.94 B.75	TRS 230VUC 2C0 TRS 230VUC 1C0	1123540000 1122820000	C.87 B.33	TRS 48VUC 2CO AU TRS 48VUC 2CO AU	1123750000 1123750000	C.55 C.89	ZQV 4N/4 ZQV 4N/4	1527970000 1527970000	C.150 C.151
TRP T 24VDC 1CO M3 EMPTY TRPL 12-60VUC 1CO	2639740000 2773770000	C.95 B.8	TRS 230VUC 1C0 TRS 230VUC 1C0 16A	1122820000 1479740000	C.81 B.57	TRS 48VUC 2CO EMPTY TRS 5VDC 1CO	1124000000 1122740000	B.101 B.33	ZQV 4N/4 BK ZQV 4N/4 BK	2810890000 2810890000	B.196 C.150
TRPL 12-60VUC 1NO	2773780000	B.12	TRS 230VUC 1CO 16A PB	2988420000	B.51	TRS 5VDC 1CO	1122740000	C.81	ZQV 4N/4 BK	2810890000	C.151
TRPL 12-60VUC 2C0 TRPL 120VAC 1C0	2773790000 2773800000	B.16 B.7	TRS 230VUC 1CO AGSNO TRS 230VUC 1CO AGSNO	2153590000 2153590000	B.39 C.85	TRS 5VDC 1CO 16A TRS 5VDC 1CO AGSNO	1479650000 2152860000	B.57 B.39	ZQV 4N/4 BL ZQV 4N/4 BL	1528120000 1528120000	B.196 C.150
TRPL 120VAC 1NO	2773810000	B.11	TRS 230VUC 1CO AU	1123050000	B.35	TRS 5VDC 1CO AGSNO	2152860000	C.85	ZQV 4N/4 BL	1528120000	C.151
TRPL 120VAC 2CO TRPL 230VAC 1CO	2773820000 2773830000	B.15 B.7	TRS 230VUC 1CO AU TRS 230VUC 1CO AU	1123050000 1123050000	C.51 C.83	TRS 5VDC 1CO AU TRS 5VDC 1CO AU	1122980000 1122980000	B.35 C.51	ZQV 4N/4 RD ZQV 4N/4 RD	2460800000 2460800000	B.196 C.150
TRPL 230VAC 1NO	2773840000	B.11	TRS 230VUC 1CO EMPTY	1123300000	B.100	TRS 5VDC 1CO AU	1122980000	C.83	ZQV 4N/4 RD	2460800000	C.151
TRPL 230VAC 2CO	2773850000	B.15	TRS 230VUC 2CO AU	1123790000	B.67	TRS 5VDC 1CO EMPTY	1123220000	B.100			

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1123480000 TRS 12VDC 2CO										4040	00000	
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1123490000 TRS 24VIC 2C0 C87 1127220000 TOS 23VIVC 24VICC2A C.77 121980000 DRH17322UIT C.33 T.12350000 TRS 24VIC 2C0 C.67 T.12730000 TOS 12VIVC 24VICC2A C.77 T.12980000 DRH173524LT C.33 T.123510000 TRS 24VIC 2C0 C.67 T.12740000 TOS 12VIVC RC 24VICC2A C.77 T.12980000 DRH173524LT C.33 T.123510000 TRS 48VIC 2C0 C.67 T.12740000 TOS 12VIVC RC 24VICC2A C.77 T.12980000 DRH173524LT C.33 T.123510000 TRS 48VIC 2C0 C.67 T.12740000 TOS 23VIVC RC 24VICC2A C.77 T.12980000 DRH17354BLT C.33 T.123510000 TRS 48VIC 2C0 C.67 T.12740000 TOS 23VIVC RC 24VICC2A C.77 T.12980000 DRH17354BLT C.33 T.123510000 TRS 60VIC 2C0 C.67 T.12740000 TOS 23VIVC RC 24VICC2A C.77 T.12980000 DRH17354BLT C.33 T.123510000 TRS 60VIC 2C0 C.67 T.12740000 TOS 52VIVC 23VIVACIA C.79 T.12980000 DRH17361BLT C.33 T.123510000 TRS 12VIVC 2C0 C.67 T.12740000 TOS 52VIVC 23VIVACIA C.79 T.12980000 DRH17361BLT C.33 T.123540000 TRS 12VIVC 2C0 C.67 T.12740000 TOS 12VIC 23VIVACIA C.79 T.12980000 DRH173730LT C.33 T.123540000 TRS 23VIVC 2C0 C.67 T.127400000 TOS 12VIC 23VIVACIA C.79 T.12980000 DRH173730LT C.33 T.123540000 TRS 23VIVC 2C0 C.67 T.127400000 TOS 24VIC 23VIVACIA C.79 T.12980000 DRH173730LT C.33 T.123540000 TRS 12VIVC 23VIVACIA C.79 T.12980000 DRH1747012LT C.33 T.123540000 TRS 12VIVC 23VIVACIA C.79 T.129800000 DRH174012LT C.33 T.123540000 TRS 12VIVC 23VIVACIA C.79 T.129800000 DRH174012LT C.33 T.123540000 TRS 12VIVC 23VIVACIA C.79 T.129800000 DRH174024LT C.33 T.123540000 TRS 23VIVC 2C0 C.67 T.127400000 TOS 24VIVC 23VIVACIA C.79 T.129800000 DRH174024LT C.33 T.123540000 TRS 23VIVC 2C0 C.67 T.127400000 TOS 24VIVC 23VIVACIA C.79 T.129800000 DRH174024LT C.33 T.123540000 TRS 23VIVC 2C0 C.67 T.127400000 TOS 24VIVC 23VIVACIA C.79 T.129800000 DRH174024LT C.33 T.				1127210000			1219870000		C.33			C.121
1123500000 TRS 24VUC 2C0 C.87 1127230000 TOS 12VVAC RC 24VDC2A C.77 1219890000 DRH173524LT C.33 T.12730000 TOS 12VVAC RC 24VDC2A C.77 T.128500000 TRS 48VUC 2C0 C.87 T.12740000 TOS 23VVAC RC 24VDC2A C.77 T.128500000 TRS 68VVUC 2C0 C.87 T.12740000 TOS 23VVAC RC 24VDC2A C.77 T.128500000 DRH173548LT C.33 T.12850000 TRS 68VVUC 2C0 C.87 T.12740000 TOS 23VVAC RC 24VDC2A C.77 T.128500000 DRH173548LT C.33 T.12850000 TRS 68VVUC 2C0 C.87 T.127400000 TOS 54VDC 230VAC1A C.79 T.128500000 DRH1735815LT C.33 T.128500000 TRS 120VUC 2C0 C.87 T.127400000 TOS 54VDC 230VAC1A C.79 T.128500000 DRH17350UT C.33 T.128500000 TRS 230VUC 2C0 C.87 T.127400000 TOS 12VDC 230VAC1A C.79 T.128500000 DRH173730UT C.33 T.128500000 TRS 230VUC 2C0 C.87 T.127400000 TOS 12VDC 230VAC1A C.79 T.128500000 DRH173730UT C.33 T.128500000 TRS 230VUC 2C0 C.87 T.127400000 TOS 24VDC 230VAC1A C.79 T.128500000 TRS 12VDC 2	1123490000	TRS 24VDC 2CO	C.87							1319280000	SCS 24VDC P2SIL3ES	C.122
1123510000 TRS 48VUC 2CO										1200	00000	
1123510000 TRS 48VUC 2CO										1380	UUUUUU	
1123520000 TRS 60VUC 2CO				1127240000	TOS 230VAC RC 24VDC2A	B.83	1219910000	DRH173548LT	B.177			B.54
1123530000 TRS 120VUC 2C0 B.63 1127490000 TOS 5VDC 230VACIA C.79 1219920000 DRH173615LT C.33 1123530000 TRS 120VUC 2C0 C.67 1127400000 TOS 12VDC 230VACIA B.87 1219930000 DRH173730LT B.177 1123540000 TRS 230VUC 2C0 B.63 1127400000 TOS 12VDC 230VACIA C.79 1219930000 DRH173730LT C.33 1391680000 TOS 24VDC ACT TOS 24VDC 230VACIA B.87 1219930000 DRH174012LT B.177 T.33550000 TRS 120VAC RC 2C0 B.63 T.37400000 TOS 24VDC 230VACIA C.79 T.374000000000000000000000000000000000000	1123520000	TRS 60VUC 2CO	B.63							1381900000	TRS 24VDC ACT	C.18
1123540000 TRS 230VUC 2C0 B.63 1127400000 TOS 12VUC 230VACIA B.87 1219300000 DRH17301LT B.177 1123540000 TRS 230VUC 2C0 B.63 1127410000 TOS 24VUC 230VACIA B.87 1219340000 DRH174012LT B.177 1123550000 TRS 120VAC RC 2C0 B.63 1127410000 TOS 24VUC 230VACIA B.87 1219340000 DRH174012LT B.177 1219350000 TRS 120VAC RC 2C0 B.63 1127420000 TOS 24VUC 230VACIA B.87 1219340000 DRH174024LT B.177 B.1										1200	00000	
1123540000 TRS 230VUC 2CO B.63 1127400000 TOS 12VDC 230VACIA C.79 121980000 DRH17373ULT C.33 139168000 TOS 24VDC ACT T										1390	UUUUUU	
1123550000 TRS 120VACRC 2CO B.63 1127410000 TOS 24VDC 230VAC1A C.79 1219940000 DRH174012LT C.33 C.35 C.35	1123540000	TRS 230VUC 2C0	B.63	1127400000	TOS 12VDC 230VAC1A	C.79	1219930000	DRH173730LT	C.33			B.85
1123550000 TRS 120VAC RC 2CO C.87 112742000 TOS 24VUC 230VAC1A B.87 1219950000 DRH174024LT B.177 4200000000 1123570000 TRS 230VAC RC 2CO B.83 1127420000 TOS 24VUC 230VAC1A C.79 1219850000 DRH174024LT C.33 L										1391680000	TOS 24VDC ACT	C.19
1123570000 TR S 230VAC RC 2CO B.63 1127420000 TOS 24VUC 230VAC1A C.79 1219950000 DRH174024LT C.33 14204000 SSR 10-32VDC/0-35VDC 5A 1123710000 TRS 230VAC RC 2CO C.87 1127430000 TOS 48VUC 230VAC1A B.87 1219960000 DRH174048LT B.177 1421450000 SSR 10-32VDC/0-35VDC 5A 1123710000 TRS 5VDC 2CO AU B.67 1127430000 TOS 48VUC 230VAC1A C.79 1219960000 DRH174048LT C.33										1/120	ոոոոո	
1123570000 TRS 230VAC RC 2CO C.87 1127430000 TOS 48VUC 230VAC1A B.87 1219960000 DRH174048LT B.177 1421450000 SSR 10-32VDC/0-35VDC 5A 1123710000 TRS SVDC 2CO AU B.67 1127430000 TOS 48VUC 230VAC1A C.79 1219960000 DRH174048LT C.33 C.33				1127420000	TOS 24VUC 230VAC1A	C.79	1219950000	DRH174024LT	C.33			
										1421450000	SSR 10-32VDC/0-35VDC 5A	B.99
1123710000 TRS 5VDC 2C0 AU C.55 1127440000 TOS 60VUC 230VAC1A B.87 1219970000 DRH174110LT B.177												



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14500	000000		1984540000 1984540000	TRS 24VDC 1CO AGSNO	B.39 C.85	2556360000 2556370000	TCC 6.4/10 OR TCC 6.4/51 OR	B.102 B.102	2618020000 2618030000	TRP 24VDC 1CO AGSNO TRP 120VAC RC 1CO AU	C.85 B.35
1454430000	RSS113024F	B.98	1984560000	TRS 24VDC 1CO AGSNO TRS 12VDC 1CO C1D2	B.93	2556380000	TCC 12.8/26 OR	B.102	2618030000	TRP 120VAC RC 1C0 AU	C.51
			1984570000	TRS 24VDC 1CO C1D2	B.93	2556390000	TCC 6.4/2 RD	B.102	2618030000	TRP 120VAC RC 1C0 AU	C.83
14600	000000		1984580000 1984590000	TRS 24VUC 1CO C1D2 TRS 120VACRC 1CO C1D2	B.93 B.93	2556400000 2556410000	TCC 6.4/10 RD TCC 6.4/51 RD	B.102 B.102	2618040000 2618050000	TRP 12VDC 1CO 16A TRP 230VUC 1CO	B.57 B.33
1463520000	TIA F10	B.106	1984600000	TRS 230VACRC 1C0 C1D2	B.93	2556420000	TCC 12.8/26 RD	B.102	2618050000	TRP 230VUC 1CO	C.81
1463530000 1463540000	TIA SUBD 15S TIAL F10	B.107 B.108	1984610000 1984620000	TRS 24-230VUC 1C0 C1D2 TRS 12VDC 1C0AU C1D2	B.93 B.95	2556430000 2556440000	TCC 6.4/2 BL TCC 6.4/10 BL	B.102 B.102	2618060000 2618060000	TRP 5VDC 1CO AU TRP 5VDC 1CO AU	B.35 C.51
1463550000	TIALF20	B.109	1984630000	TRS 24VDC 1COAU C1D2	B.95	2556450000	TCC 6.4/51 BL	B.102	2618060000	TRP 5VDC 1CO AU	C.83
4.4704	00000		1984640000 1984650000	TRS 120VACRC 1COAU C1D2 TRS 24-230VUC 1COAUC1D2	B.95 B.95	2556460000 2556470000	TCC 12.8/26 BL TCC 6.4/2 BK	B.102 B.102	2618070000 2618070000	TRP 60VUC 1CO AU TRP 60VUC 1CO AU	B.35 C.51
14/00	000000				2.00	2556480000	TCC 6.4/10 BK	B.102	2618070000	TRP 60VUC 1CO AU	C.83
1479650000 1479670000	TRS 5VDC 1CO 16A	B.57 B.57	1990	000000		2556490000 2556500000	TCC 6.4/51 BK TCC 12.8/26 BK	B.102 B.102	2618080000 2618080000	TRP 120VUC 1CO AU TRP 120VUC 1CO AU	B.35 C.51
1479680000	TRS 12VDC 1CO 16A TRS 24VDC 1CO 16A	B.57	1990960000	TOS 24VDC 24VDC5A	B.91	2558340000	ESG 6/15 SDI MC NE WS	B.136	2618080000	TRP 120VUC 1CO AU	C.83
1479690000	TRS 24VUC 1CO 16A	B.57	0450	20000		2558340000	ESG 6/15 SDI MC NE WS	B.140	2618090000	TRP 24VDC 1NO HC TRP 24VDC 1NO HC	B.60 C.16
1479700000 1479710000	TRS 48VUC 1CO 16A TRS 60VUC 1CO 16A	B.57 B.57	2150	000000		2570	000000		2618090000 2618100000	TRP 24VDC 1CO 16A	B.57
1479730000	TRS 120VUC 1CO 16A	B.57	2152860000	TRS 5VDC 1CO AGSNO	B.39			D 107	2618110000	TRP 24VDC 1CO AU	B.35
1479740000 1479750000	TRS 230VUC 1CO 16A TRS 120VAC RC 1CO 16A	B.57 B.57	2152860000 2152880000	TRS 5VDC 1CO AGSNO TRS 12VDC 1CO AGSNO	C.85 B.39	2575980000 2575990000	DRIKITP 115VAC 1CO LD DRMKITP 115VAC 2CO LD	B.127 B.143	2618110000 2618110000	TRP 24VDC 1CO AU TRP 24VDC 1CO AU	C.51 C.83
1479760000	TRS 230VAC RC 1CO 16A	B.57	2152880000	TRS 12VDC 1CO AGSNO	C.85	2576000000	DRMKITP115VAC 2CO LD/PB	B.143	2618120000	TRP 12VDC 1CO AU	B.35
1479780000 1479780000	TRS 24VDC 1NO HC TRS 24VDC 1NO HC	B.60 C.16	2152900000 2152900000	TRS 120VAC RC 1CO AGSNO TRS 120VAC RC 1CO AGSNO	B.39 C.85	2576010000 2576020000	DRMKITP 115VAC 4CO LD DRMKITP115VAC 4CO LD/PB	B.147 B.147	2618120000 2618120000	TRP 12VDC 1CO AU TRP 12VDC 1CO AU	C.51 C.83
1479810000	TRS 24VDC 1NO HCP	B.61	2152920000	TRS 230VAC RC 1CO AGSNO	B.39	2576030000	DRMKITP 230VAC 2CO LD	B.143	2618130000	TRP 5VDC 1CO 16A	B.57
1479810000	TRS 24VDC 1NO HCP	C.17	2152920000 2152940000	TRS 230VAC RC 1CO AGSNO TRS 24VUC 1CO AGSNO	C.85 B.39	2576040000 2576050000	DRMKITP230VAC 2CO LD/PB DRMKITP 230VAC 4CO LD	B.143 B.147	2618140000 2618140000	TRP 60VUC 1CO TRP 60VUC 1CO	B.33 C.81
15200	000000		2152940000	TRS 24VUC 1CO AGSNO	C.85	2576060000	DRMKITP230VAC 4C0 LD/PB	B.147	2618150000	TRP 120VAC RC 1CO	B.33
		2.450	2153060000 2153060000	TRS 48VUC 1CO AGSNO TRS 48VUC 1CO AGSNO	B.39 C.85	2576070000 2576080000	DRMKITP 24VAC 2CO LD DRMKITP 24VAC 2CO LD/PB	B.143 B.143	2618150000 2618160000	TRP 120VAC RC 1CO TRP 24VUC 1CO AU	C.81 B.35
1520980000 1520980000	ESG 9/26 SCM ECO MC NE WS ESG 9/26 SCM ECO MC NE WS	B.152 B.156	2153550000	TRS 60VUC 1CO AGSNO	B.39	2576090000	DRMKITP 24VAC 4CO LD	B.143 B.147	2618160000	TRP 24VUC 1CO AU	C.51
1527930000	ZQV 4N/2	B.196	2153550000	TRS 60VUC 1CO AGSNO	C.85	2576100000	DRMKITP 24VAC 4CO LD/PB	B.147	2618160000	TRP 24VUC 1CO AU	C.83
1527930000 1527930000	ZQV 4N/2 ZQV 4N/2	C.150 C.151	2153570000 2153570000	TRS 120VUC 1CO AGSNO TRS 120VUC 1CO AGSNO	B.39 C.85	2576110000 2576120000	DRMKITP 24VDC 2CO LD DRMKITP 24VDC 2CO LD/PB	B.143 B.143	2618170000 2618170000	TRP 48VUC 1CO AU TRP 48VUC 1CO AU	B.35 C.51
1527940000	ZQV 4N/3	B.196	2153590000	TRS 230VUC 1CO AGSNO	B.39	2576130000	DRMKITP 24VDC 4CO LD	B.147	2618170000	TRP 48VUC 1CO AU	C.83
1527940000 1527940000	ZQV 4N/3 ZQV 4N/3	C.150 C.151	2153590000	TRS 230VUC 1CO AGSNO	C.85	2576140000 2576150000	DRMKITP 24VDC 4CO LD/PB DRIKITP230VAC 2CO LD/PB	B.147 B.131	2618180000 2618180000	TRP 12VDC 1CO TRP 12VDC 1CO	B.33 C.81
1527970000	ZQV 4N/4	B.196	24600	000000		2576160000	DRIKITP230VAC 1CO LD/PB	B.127	2618190000	TRP 230VAC RC 1CO 16A	B.57
1527970000	ZQV 4N/4 ZQV 4N/4	C.150 C.151	2460450000	ZQV 4N/2 RD	B.196	2576170000 2576180000	DRIKITP115VAC 2CO LD/PB DRIKITP115VAC 1CO LD/PB	B.131 B.127	2618200000 2618200000	TRP 230VAC RC 1C0 TRP 230VAC RC 1C0	B.33 C.81
1527970000 1528040000	ZQV 4N/2 BL	B.196	2460450000	ZQV 4N/2 RD	C.150	2576190000	DRIKITY 24VDC 2CO LD/PB	B.131	2618210000	TRP 230VUC 1CO AU	B.35
1528040000	ZQV 4N/2 BL	C.150	2460450000 2460740000	ZQV 4N/2 RD ZQV 4N/10 RD	C.151 B.196	2576200000 2576210000	DRIKITP 24VDC 2CO LD DRIKITP 24VDC 1CO LD/PB	B.131 B.127	2618210000 2618210000	TRP 230VUC 1CO AU TRP 230VUC 1CO AU	C.51 C.83
1528040000 1528080000	ZQV 4N/2 BL ZQV 4N/3 BL	C.151 B.196	2460740000	ZQV 4N/10 RD	C.150	2576220000	DRIKITP 24VDC 1CO LD/PB	B.127	2618220000	TRP 24VUC 1CO	B.33
1528080000	ZQV 4N/3 BL	C.150	2460740000	ZQV 4N/10 RD	C.151	2576230000	DRIKITP 24VAC 2CO LD/PB	B.131	2618220000	TRP 24VUC 1CO	C.81
1528080000 1528090000	ZQV 4N/3 BL ZQV 4N/10	C.151 B.196	2460800000 2460800000	ZQV 4N/4 RD ZQV 4N/4 RD	B.196 C.150	2576240000 2576250000	DRIKITP 24VAC 2CO LD DRIKITP 24VAC 1CO LD/PB	B.131 B.127	2618230000 2618230000	TRP 24VDC ACT TRP 24VDC ACT	B.54 C.18
1528090000	ZQV 4N/10	C.150	2460800000	ZQV 4N/4 RD	C.151	2576260000	DRIKITP 24VAC 1CO LD	B.127	2618240000	TRP 48VUC 1CO	B.33
1528090000 1528120000	ZQV 4N/10 ZQV 4N/4 BL	C.151 B.196	2460810000 2460810000	ZQV 4N/3 RD ZQV 4N/3 RD	B.196 C.150	2576270000 2576280000	DRIKITP 230VAC 2C0 LD DRIKITP 230VAC 1C0 LD	B.131 B.127	2618240000 2618260000	TRP 48VUC 1CO TRP 230VUC 1CO 16A	C.81 B.57
1528120000	ZQV 4N/4 BL	C.150	2460810000	ZQV 4N/3 RD	C.151	2576290000	DRIKITP 115VAC 2CO LD	B.131	2618270000	TRP 120VAC RC 1CO 16A	B.57
1528120000 1528230000	ZQV 4N/4 BL ZQV 4N/10 BL	C.151 B.196	2//70	00000		20400	00000		2618280000 2618290000	TRP 120VUC 1CO 16A TRP 60VUC 2CO	B.57 B.63
1528230000	ZQV 4N/10 BL	C.150	24/0	000000		Zb TU	000000		2618290000	TRP 60VUC 2CO	C.87
1528230000	ZQV 4N/10 BL	C.151	2476340000 2476680000	DRIKIT 12VDC 1CO LD DRIKIT 24VDC 1CO LD	B.129 B.129	2614820000 2614820000	TRP 5VDC 1CO AGSNO TRP 5VDC 1CO AGSNO	B.39 C.85	2618300000 2618300000	TRP 230VUC 2CO AU TRP 230VUC 2CO AU	B.67 C.55
15/100	000000							6.00			
			2476690000	DRIKIT 48VDC 1CO LD	B.129	2614830000	TRP 5VDC 1CO	B.33	2618300000	TRP 230VUC 2CO AU	C.89
		245	2476690000 2476700000	DRIKIT 110VDC 1CO LD	B.129 B.129	2614830000 2614830000	TRP 5VDC 1CO	C.81	2618300000 2618310000	TRP 12VDC 2CO AU	B.67
1542360000	DRMKIT 24VDC 2CO LD	B.145 B.145	2476690000		B.129	2614830000			2618300000		
1542360000 1542370000 1542380000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD	B.145 B.145	2476690000 2476700000 2476710000 2476720000 2476730000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 230VAC 1CO LD	B.129 B.129 B.129 B.129 B.129	2614830000 2614830000 2614840000 2614840000 2614850000	TRP 5VDC 1C0 TRP 5VDC 2C0 TRP 5VDC 2C0 TOP 5VDC 2S0VAC1A	C.81 B.63 C.87 B.87	2618300000 2618310000 2618310000 2618310000 2618320000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO	B.67 C.55 C.89 B.63
1542360000 1542370000 1542380000 1542390000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 230VAC 2CO LD	B.145 B.145 B.145	2476690000 2476700000 2476710000 2476720000 2476730000 2476740000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 230VAC 1CO LD DRIKIT 12VDC 1CO LD/PB	B.129 B.129 B.129 B.129 B.129 B.129	2614830000 2614830000 2614840000 2614840000	TRP 5VDC 1CO TRP 5VDC 2CO TRP 5VDC 2CO TOP 5VDC 2SOVAC1A TOP 5VDC 230VAC1A	C.81 B.63 C.87 B.87 C.79	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO	B.67 C.55 C.89 B.63 C.87
1542360000 1542370000 1542380000 1542390000 1542410000 1542420000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 230VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD	B.145 B.145 B.145 B.149 B.149	2476690000 2476700000 2476710000 2476720000 2476730000 2476740000 2476750000 2476760000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 230VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB	B.129 B.129 B.129 B.129 B.129 B.129 B.129 B.129	2614830000 2614830000 2614840000 2614840000 2614850000 2614860000 2614860000	TRP 5VDC 1CO TRP 5VDC 2CO TRP 5VDC 2CO TRP 5VDC 2CO TOP 5VDC 230VAC1A TOP 5VDC 230VAC1A TOP 5VDC 48VDCC.1A TOP 5VDC 48VDCO.1A	C.81 B.63 C.87 B.87 C.79 B.79 C.57	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO	B.67 C.55 C.89 B.63 C.87 B.63
1542360000 1542370000 1542380000 1542390000 1542410000 1542420000 1542430000	DRMKIT 24VDC 2CO LD DRMKIT 22VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 22VDC 4CO LD DRMKIT 24VAC 4CO LD	B.145 B.145 B.145 B.149 B.149 B.149	2476690000 2476700000 2476710000 2476720000 2476730000 2476740000 2476750000 2476760000 2476770000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB	B.129	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 48VDC0.1A TOP SVDC 48VDC0.1A TOP SVDC 48VDC0.1A	C.81 B.63 C.87 B.87 C.79 B.79 C.57	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618350000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VAC RC 2CO TRP 23VAC RC 2CO TRP 23VAC RC 2CO TOP 24VUC 230VACTA	B.67 C.89 B.63 C.87 B.63 C.87 B.87
1542360000 1542370000 1542380000 1542390000 1542410000 1542420000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 230VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD	B.145 B.145 B.145 B.149 B.149	2476690000 2476700000 2476710000 2476720000 2476730000 2476730000 2476750000 2476760000 2476770000 2476780000 2476780000 2476790000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 1C4VAC 1CO LD/PB	B.129	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614860000 2614860000 2614860000 2614880000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 248VDC0 1A TOP SVDC 48VDC0 1A	C.81 B.63 C.87 B.87 C.79 B.79 C.57 C.75 B.100 B.79	261830000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618330000 2618350000 2618350000 2618360000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VVAC CC TRP 23UVAC RC 2CO TRP 23UVAC RC 2CO TRP 23UVAC RC 2CO TOP 24VUC 23UVAC IA TRP 60VUC 230VAC IA	B.67 C.55 C.89 B.63 C.87 B.63 C.87 B.87 C.79
1542360000 1542370000 1542380000 1542380000 1542410000 1542420000 1542420000 1542450000 1542460000 1542470000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VAC 2CO LD/PB DRMKIT 24VAC 2CO LD/PB	B.145 B.145 B.149 B.149 B.149 B.149 B.145 B.145	2476690000 2476710000 2476710000 2476720000 2476730000 2476730000 2476750000 2476770000 2476770000 2476770000 2476790000 2476890000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB	B.129	2614830000 2614830000 2614840000 2614850000 2614850000 2614860000 2614860000 2614860000 2614860000 2614860000 2614860000 2614880000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 48VDC0.1A TOP SVDC 48VDC0.1A TOP SVDC 48VDC0.1A TOP SVDC 1CD EMPTY	C.81 B.63 C.87 B.87 C.79 B.79 C.57 C.75 B.100 B.79	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618350000 2618350000 2618360000 2618360000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TRP 24VUC 230VACIA TOP 24VUC 230VACIA TOP 24VUC 230VACIA TRP 60VUC 2CO AU TRP 60VUC 2CO AU	B.67 C.55 C.89 B.63 C.87 B.63 C.87 B.87 C.79 B.67
1542360000 1542370000 1542380000 1542390000 1542410000 1542420000 1542430000 1542450000 1542450000 1542470000 1542470000 1542480000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB	B.145 B.145 B.149 B.149 B.149 B.149 B.145 B.145	2476690000 2476700000 2476710000 2476720000 2476730000 2476730000 2476750000 2476760000 2476770000 2476780000 2476780000 2476790000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD DRIKIT 124VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 1C4VAC 1CO LD/PB	B.129	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614860000 2614860000 2614860000 2614880000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 248VDC0 1A TOP SVDC 48VDC0 1A	C.81 B.63 C.87 B.87 C.79 B.79 C.57 C.75 B.100 B.79	261830000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618330000 2618350000 2618350000 2618360000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VVAC CC TRP 23UVAC RC 2CO TRP 23UVAC RC 2CO TRP 23UVAC RC 2CO TOP 24VUC 23UVAC IA TRP 60VUC 230VAC IA	B.67 C.55 C.89 B.63 C.87 B.63 C.87 B.87 C.79
1542360000 1542370000 1542380000 1542380000 1542410000 1542420000 1542450000 1542450000 1542470000 1542470000 1542480000 1542480000 1542480000 1542480000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 22VDC 2CO LD/PB DRMKIT 24VDC 4CO LD/PB DRMKIT 24VDC 4CO LD/PB	B.145 B.145 B.149 B.149 B.149 B.149 B.145 B.145 B.145 B.145	2476690000 2476700000 2476710000 2476720000 2476730000 2476740000 2476750000 2476760000 2476770000 2476770000 2476780000 2476800000 2476810000 2476810000 2476810000 2476810000 2476830000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 10VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 12VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 24VBC 2CO LD	B.129 B.133 B.133 B.133	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614860000 2614860000 2614880000 2614880000 2614880000 2614880000 2614880000 2617830000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 2SOVACTA TOP SVDC 2SOVACTA TOP SVDC 2SOVACTA TOP SVDC 4SVDCO. 1A TOP SVDC 48VDCO. 1A TOP SVDC 48VDCO. 1A TRP SVDC 1CO EMPTY TOP SWDC 48VDCO. 1A TOP 6VDC 48VDCO. 1A TOP 6VDC 48VDCO. 1A TOP 6VUC 48VDCO. 1A TOP 5VUC 1CO AGSNO TRP 2SOVUC 1CO AGSNO	C.81 B.63 C.87 B.87 C.79 B.79 C.57 C.75 B.100 B.79 C.57 C.57	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618320000 2618350000 2618360000 2618360000 2618360000 2618360000 2618370000 2618370000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TOP 24VUC 230VAC IA TOP 24VUC 230VAC IA TOP 26VUC 2CO AU TRP 60VUC 2CO AU TOP 60VUC 2CO AU TOP 60VUC 230VAC IA	B.67 C.55 C.89 B.63 C.87 B.63 C.87 C.79 B.67 C.55 C.89 B.87
1542360000 1542370000 1542380000 1542390000 1542430000 1542420000 1542450000 1542450000 1542450000 1542480000 1542480000 1542490000 1542490000 154250000 154250000	DRMKIT 24VDC 2CO LD DRMKIT 22VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 4CO LD/PB DRMKIT 24VDC 4CO LD/PB DRMKIT 24VDC 4CO LD/PB DRMKIT 24VDC 4CO LD/PB	B.145 B.145 B.149 B.149 B.149 B.145 B.145 B.145 B.145 B.145 B.145 B.145	2476690000 2476700000 2476710000 2476720000 2476730000 2476730000 2476750000 2476760000 24767760000 2476780000 24768800000 24768800000 24768800000 2476820000 2476820000 2476820000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 115VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 14VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 24VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 12VDC 2CO LD DRIKIT 24VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 110VDC 2CO LD	B.129 B.133 B.133	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614870000 2614880000 2614880000 2614880000 2614880000 2614880000 2614880000 2614880000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 280VAC1A TOP SVDC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A TRP 230VUC 1CO AGSNO	C.81 B.63 C.87 B.87 C.79 B.79 C.57 C.75 B.100 B.79 C.57 C.75 B.39	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618350000 2618360000 2618360000 2618360000 2618360000 2618360000 2618370000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VVAC RC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TRP 230VAC RC 2CO TRP 24VUC 230VAC IA TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU	B.67 C.55 C.89 B.63 C.87 B.63 C.87 C.79 B.67 C.79
1542360000 1542370000 1542380000 1542380000 1542410000 1542420000 1542450000 1542450000 1542470000 1542470000 1542480000 1542480000 1542480000 1542480000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 22VDC 2CO LD/PB DRMKIT 24VDC 4CO LD/PB DRMKIT 24VDC 4CO LD/PB	B.145 B.145 B.149 B.149 B.149 B.149 B.145 B.145 B.145 B.145	2476690000 2476700000 2476700000 2476720000 2476730000 2476730000 2476740000 2476760000 2476760000 2476770000 2476870000 2476810000 2476810000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 10VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 12VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 110VDC 2CO LD	B.129 B.133 B.133 B.133 B.133 B.133	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614880000 2614880000 2614880000 2614880000 2617830000 2617840000 2617840000 2617840000 2617840000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 38VDC0.1A TOP SVDC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 60VUC 48VDC0.1A TOP 80VUC 48VDC0.1A TOP 230VUC 1CO AGSNO TRP 230VUC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 230VAC RC 1CO AGSNO	C.81 B.63 C.87 B.87 C.79 B.79 C.75 B.100 B.79 C.55 B.39 C.85 B.39	2618300000 2618310000 2618310000 2618320000 2618320000 2618320000 2618330000 2618350000 2618350000 2618360000 2618360000 2618360000 2618360000 2618360000 2618360000 2618390000 2618390000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 230VAC RC 2CO TRP 24VUC 230VAC IA TOP 24VUC 230VAC IA TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TOP 60VUC 230VAC IA TOP 60VUC 230VAC IA TOP 12VDC 230VAC IA TOP 12VDC 230VAC IA	8.67 C.55 C.88 B.63 C.87 B.63 C.79 B.67 C.79 C.55 C.89 B.87 C.79 B.87
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1542360000 1542370000 1542380000 1542380000 154240000 1542420000 1542420000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 154250000 154250000 154250000 154250000	DRMKIT 24VDC 2CO LD DRMKIT 220VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 4CO LD/PB	B.145 B.145 B.145 B.149 B.149 B.149 B.145 B.145 B.145 B.145 B.145 B.149 B.149 B.149	2476690000 2476700000 2476700000 2476720000 2476730000 2476730000 2476740000 2476760000 2476760000 2476770000 24767800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000 24768800000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 24VDC 1CO LD/PB DRIKIT 10VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 12VAC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 110VDC 2CO LD DRIKIT 230VAC 2CO LD DRIKIT 230VAC 2CO LD DRIKIT 230VAC 2CO LD DRIKIT 110VDC 2CO LD DRIKIT 230VAC 2CO LD DRIKIT 230VAC 2CO LD	B.129 B.133	2614830000 2614830000 2614840000 2614840000 2614850000 2614850000 2614860000 2614860000 2614880000 2614880000 2614880000 2614880000 2617830000 2617840000 2617850000 2617850000 2617850000 2617850000 2617850000 2617850000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 38VDC0.1A TOP SVDC 48VDC0.1A TOP SOVUC 4SVDC0.1A TOP SOVUC 4SVDC0.1A TOP SOVUC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 230VAC RC 1CO AGSNO TRP 230VAC RC 1CO AGSNO TRP 120VAC 1CO AGSNO	C.81 B.63 C.87 C.79 B.79 C.75 B.100 B.79 C.55 C.75 B.39 C.85 B.39 C.85 B.39 C.85	2618300000 2618310000 2618310000 2618320000 2618320000 2618320000 2618330000 2618350000 2618350000 2618360000 2618360000 2618370000 2618370000 2618380000 2618390000 2618390000 2618390000 2618390000 2618390000 2618390000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VAC RC 2CO TRP 23VAC RC 2CO TRP 23VAC RC 2CO TRP 23VAC RC 2CO TRP 24VUC 23VAC IA TOP 24VUC 23VAC IA TOP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TOP 60VUC 23VAC IA TOP 12VDC 23VAC IA TOP 12VDC 23VAC IA TOP 12VDC 23VAC IA TOP 12VDC 25VAC IA TOP 12VDC 25VAC IA TOP 12VDC 25VAC IA	8.67 C.55 C.89 B.63 C.87 B.63 C.87 C.79 C.79 C.79 B.87 C.79 B.87 C.79 B.87 C.79 B.87 C.79 B.87
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1542360000 1542370000 1542370000 15424300000 15424300000 1542420000 1542420000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 1542450000 154250000 154250000 154250000 154250000 154250000 1542500000 1542500000000000000000000000000000000000	DRMKIT 24VDC 2CO LD DRMKIT 22VDC 2CO LD DRMKIT 22VDC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VAC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 24VAC 4CO LD/PB DRMKIT 26VDC 4CO LD/PB DRMKIT	B.145 B.145 B.145 B.149 B.149 B.149 B.149 B.145 B.149	2476690000 2476700000 2476710000 2476730000 2476730000 2476730000 2476750000 2476760000 2476760000 2476780000 2476780000 24768790000 24768800000 24768820000 24768820000 24768800000 2476880000 2476890000 2476890000 2476890000 2476890000 2476890000 2476890000 2476890000 2476890000 2476890000 2476990000 2476990000 2476990000 24769900000 24769900000 24769900000 24769900000 24769900000 24769900000 24769900000 24769900000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 110VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 12VAC 1CO LD/PB DRIKIT 12VAC 1CO LD/PB DRIKIT 24VDC 2CO LD DRIKIT 24VDC 2CO LD DRIKIT 12VDC 2CO LD DRIKIT 15VAC 2CO LD DRIKIT 15VAC 2CO LD DRIKIT 15VAC 2CO LD DRIKIT 115VAC 2CO LD/PB DRIKIT 115VAC 2CO LD/PB DRIKIT 12VDC 2CO LD/PB DRIKIT 12VDC 2CO LD/PB DRIKIT 14VDC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 24VAC 2CO LD/PB DRIKIT 24VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 14VAC 2CO LD/PB DRIKIT 15VAC 2CO LD/PB	B.129 B.133	2614830000 2614830000 2614840000 26148450000 2614850000 2614850000 2614860000 2614860000 2614860000 2614860000 2614860000 26148800000 2617830000 2617830000 2617850000 2617860000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 2617890000 26179900000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 48VDCO.1A TOP SOVUC 48VDCO.1A TOP SOVUC 48VDCO.1A TOP SOVUC 48VDCO.1A TOP SOVUC 48VDCO.1A TRP 230VUC 1CO AGSNO TRP 230VUC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 12VDC 1CO AGSNO TRP 12VUC 1CO AGSNO TRP 24VUC 1CO AGSNO TRP 12VUC 1CO AGSNO TRP 24VUC 1CO AGSNO TRP 1COVUC 1CO AGSNO TRP 24VUC 1CO AGSNO TRP 1COVUC 1CO AGSNO TRP	C.81 B.63 C.87 C.79 B.79 C.57 C.75 B.100 B.79 C.55 B.39 C.85 C.85 B.39 C.85 B.30 C.85	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618330000 2618330000 2618350000 2618360000 2618360000 2618360000 2618360000 2618360000 2618360000 2618370000 2618380000 2618380000 2618380000 2618380000 2618380000 2618380000 2618380000 2618380000 2618380000 2618380000 2618400000 2618440000 2618440000 2618440000 2618440000 2618440000 26184460000 2618440000 26184460000 26184460000 26184490000 26184490000 26184490000 26184490000 26184490000 26184490000	TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VUC 2CO TRP 23VVAC RC 2CO TRP 23VUC 2SOVACIA TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TRP 60VUC 2CO AU TOP 60VUC 23VVACIA TOP 12VDC 2CO AU TRP 24VDC 2CO TRP 24VDC 2CO TRP 24VDC 2CO TRP 23VUC 2CO TRP 23VDC ACC TRP 23VUC 2CO TRP 12VUC 2CO TRP 12VVC RC 2CO AU TRP 1	B.67 C.55 C.89 B.63 C.87 B.63 C.87 B.67 C.79 B.67 C.79 B.67 C.79 B.63 C.87 C.79 C.79 C.79 C.79 C.79 C.79 C.79 C.7
1542360000 1542370000 1542380000 1542380000 1542280000 15422410000 1542240000 15422450000 15422450000 15422450000 15422450000 15422450000 1542250000 1542250000 1542250000 154250000 154250000 154250000 154250000 154250000 154250000 154250000 154250000 154250000 154250000 1542500000 1542500000 1542500000 1542500000000000000000000000000000000000	DRMKIT 24VDC 2CO LD DRMKIT 24VDC 2CO LD DRMKIT 22VDC 2CO LD DRMKIT 24VDC 2CO LD DRMKIT 24VDC 2CO LD DRMKIT 24VDC 4CO LD DRMKIT 24VDC 2CO LD/PB DRMKIT 24VDC 2CO LD/PB DRMKIT 22VDC 2CO LD/PB DRMKIT 22VDC 2CO LD/PB DRMKIT 23VAC 2CO LD/PB DRMKIT 23VAC 2CO LD/PB DRMKIT 24VAC 4CO LD/PB DRMKIT 26VAC 4CO LD/PB DRMKIT	B.145 B.145 B.145 B.149 B.149 B.149 B.149 B.149 B.149 B.145 B.149	2476690000 2476700000 2476700000 2476710000 2476730000 2476730000 2476750000 2476760000 2476760000 2476780000 2476780000 24768780000 2476880000 2476880000 2476880000 2476880000 2476880000 2476880000 2476890000 2476890000 2476890000 2476890000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000 2476990000	DRIKIT 110VDC 1CO LD DRIKIT 24VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VAC 1CO LD DRIKIT 12VDC 1CO LD/PB DRIKIT 12VDC 1CO LD/PB DRIKIT 14VDC 1CO LD/PB DRIKIT 110VDC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 115VAC 1CO LD/PB DRIKIT 12VDC 2CO LD DRIKIT 115VAC 2CO LD/PB DRIKIT 24VAC 2CO LD/PB DRIKIT 250VAC 2CO LD/PB	B.129 B.133	2614830000 2614830000 2614840000 2614850000 2614850000 2614850000 2614860000 2614860000 2614860000 2614880000 2614880000 2614880000 2614880000 2617830000 2617840000 2617840000 2617860000 2617860000 2617860000 2617890000 26179900000	TRP SVDC 1CO TRP SVDC 2CO TRP SVDC 2CO TRP SVDC 2CO TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 230VAC1A TOP SVDC 48VDCO. 1A TOP SVDC 1CO MPTY TOP SOVUC 48VDCO. 1A TOP SOVUC 1CO AGSNO TRP 230VUC 1CO AGSNO TRP 120VAC RC 1CO AGSNO TRP 12VDC 1CO AGSNO TRP 1CO AGSNO TRP 1CO AGSNO TRP 24VUC 1CO AGSNO TRP 1COVIC 1CO AGSNO TRP 24VUC 1CO AGSNO TRP 1COVIC 1CO AGSNO TRP 1	C.81 B.63 C.87 C.79 B.79 C.57 C.75 B.100 B.79 C.57 C.75 B.100 C.85 B.39 C.85 B.30 C.85 B.50 B.30 C.85 B.50 B.30 B.30 B.30 B.30 B.30 B.30 B.30 B.3	2618300000 2618310000 2618310000 2618310000 2618320000 2618320000 2618330000 2618330000 2618350000 2618350000 2618360000 2618360000 2618360000 2618360000 2618360000 2618360000 2618360000 2618360000 2618370000 2618390000 2618430000 26184400000 26184400000 26184400000 26184400000 26184450000 26184450000 26184450000 2618450000 2618470000 2618470000 2618470000 2618470000 2618470000 2618470000 26184840000 2618470000 26184840000	TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 12VDC 2CO AU TRP 24VUC 2CO TRP 24VUC 2CO TRP 23VVAC RC TRP 60VUC 2CO AU TRP 60VUC 2SOVACIA TOP 12VOC 230VACIA TOP 12VOC 230VACIA TOP 12VOC 230VACIA TOP 12VOC 230VACIA TOP 12VAC RC TRP 24VDC 230VACIA TOP 12VAC RC TRP 24VDC 230VACIA TOP 23VVAC RC TRP 24VDC 230VACIA TOP 23VVAC RC TRP 23VVC 2CO TRP 23VVC 2CO TRP 23VVC 2CO TRP 23VVC 2CO TRP 23VVC CSOVACIA TOP 48VVC 23VVACIA TOP 48VVC 23VVACIA TOP 48VVC 23VVACIA TOP 48VVC 23VVACIA TRP 12VVAC RC 2CO AU TRP 12VAC RC 2CO AU	8.67 C.55 C.89 B.63 C.87 B.63 C.87 C.79 B.67 C.79 B.87 C.79
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Order No.	Туре	Page	Order No.	Туре	Page	Order No.	Туре	Page	Order No.	Туре	Page
2618520000	TRP 48VUC 2CO	C.87	2662880000	TRS 24-230VUC 2C0 ED2	B.64	2749660000	SDIK SLIM PH2 X 100	B.182	2765420000	DRL273730L	B.167
2618530000 2618530000	TRP 24VDC 2CO AU TRP 24VDC 2CO AU	B.67 C.55	2662890000 2662890000	TRS 24-230VUC 2CO AU ED2 TRS 24-230VUC 2CO AU ED2	B.68 C.53	2749660000 2749660000	SDIK SLIM PH2 X 100 SDIK SLIM PH2 X 100	C.28 C.29	2765420000 2765430000	DRL273730L DRL373524L	C.23 B.169
2618530000	TRP 24VDC 2CO AU	C.89	2662900000	TRS 24-230VUC 2CO EMPTY ED2	B.101	2749660000	SDIK SLIM PH2 X 100	C.38	2765430000	DRL373524L	C.25
2618540000	TRP 24VUC 2CO AU	B.67	2662910000	TOS 24-230VUC 48VDC0,1A ED2	B.80	2749780000	SDIS 0.4X2.0X60	B.103	2765440000	DRL373615L	B.169
2618540000	TRP 24VUC 2CO AU	C.55	2662910000	TOS 24-230VUC 48VDC0,1A ED2	C.58	2749790000	SDIS 0.4X2.5X75	B.136	2765440000	DRL373615L	C.25
2618540000 2618550000	TRP 24VUC 2CO AU TRP 12VDC 2CO	C.89 B.63	2662920000 2662930000	TOS 24-230VUC 24VDC2A ED2 TOS 24-230VUC 230VAC1A ED2	B.84 B.88	2749790000 2749810000	SDIS 0.4X2.5X75 SDIS 0.6X3.5X100	B.140 B.103	2765450000 2765450000	DRL373730L DRL373730L	B.169 C.25
2618550000	TRP 12VDC 2CO	C.87	2662940000	TOS 24-230VUC 24VDC3,5A ED2	B.90	2749890000	SDIK PH1 X 80	B.136	2765460000	DRL573730L DRL573524L	B.171
2618560000	TRP 48VUC 2CO AU	B.67	2662950000	TOS 24-230VUC EMPTY ED2	B.101	2749890000	SDIK PH1 X 80	B.137	2765460000	DRL573524L	C.27
2618560000	TRP 48VUC 2CO AU	C.55	2662960000	TRS 24-230VUC 1CO 16A ED2	B.58	2749890000	SDIK PH1 X 80	B.140	2765470000	DRL573615L	B.171
2618560000 2618570000	TRP 48VUC 2CO AU TRP 120VUC 2CO	C.89 B.63	2662970000 2662970000	TRS 24-230VUC 1NO HC ED2 TRS 24-230VUC 1NO HC ED2	B.60 C.16	2749890000 2749890000	SDIK PH1 X 80 SDIK PH1 X 80	B.141 B.152	2765470000 2765480000	DRL573615L DRL573730L	C.27 B.171
2618570000	TRP 120VUC 2C0	C.87	2662980000	TRS 24-230VUC 1NO HCP ED2	B.61	2749890000	SDIK PH1 X 80	B.153	2765480000	DRL573730L	C.27
2618580000	TRP 5VDC 2CO AU	B.67	2662980000	TRS 24-230VUC 1NO HCP ED2	C.17	2749890000	SDIK PH1 X 80	B.156	2765490000	DRW273524LT	B.175
2618580000	TRP 5VDC 2CO AU	C.55	2662990000	TOS 24-230VUC 24VDC5A ED2	B.91	2749890000	SDIK PH1 X 80	B.157	2765490000	DRW273524LT	C.31
2618580000 2618590000	TRP 5VDC 2CO AU TRP 120VUC 2CO AU	C.89 B.67	2663000000 2663010000	TRS 24-230VUC 1CO AGSNO ED2 TRP 24-230VUC 1CO ED2	B.40 B.36	2749890000 2749900000	SDIK PH1 X 80 SDIK PH2 X 100	B.162 B.172	2765500000 2765500000	DRW273548LT DRW273548LT	B.175 C.31
2618590000	TRP 120VUC 2CO AU	C.55	2663020000	TRP 24-230VUC 1C0 AU ED2	B.37	2749900000	SDIK PH2 X 100	B.173	2765510000	DRW273615LT	B.175
2618590000	TRP 120VUC 2CO AU	C.89	2663020000	TRP 24-230VUC 1CO AU ED2	C.52	2749900000	SDIK PH2 X 100	B.182	2765510000	DRW273615LT	C.31
2618600000	TOP 12VDC 48VDC0.1A	B.79	2663030000	TRP 24-230VUC 1C0 EMPTY ED2	B.100	2749900000	SDIK PH2 X 100	C.28	2765520000	DRW273730LT	B.175
2618600000 2618600000	TOP 12VDC 48VDC0.1A TOP 12VDC 48VDC0.1A	C.57 C.75	2663040000 2663050000	TRP 24-230VUC 2C0 ED2 TRP 24-230VUC 2C0 AU ED2	B.64 B.68	2749900000 2749900000	SDIK PH2 X 100 SDIK PH2 X 100	C.29 C.38	2765520000 2765530000	DRW273730LT DRW273900LT	C.31 B.175
2618620000	TOP 230VAC RC 48VDC0.1A	B.79	2663050000	TRP 24-230VUC 2C0 AU ED2	C.53	271000000	ODIKT NEXT TOO	0.00	2765530000	DRW273900LT	C.31
2618620000	TOP 230VAC RC 48VDC0.1A	C.57	2663060000	TRP 24-230VUC 2CO EMPTY ED2	B.101	2750	000000		2765540000	DRW373524LT	B.175
2618620000 2618640000	TOP 230VAC RC 48VDC0.1A TOP 24VUC 48VDC0.1A	C.75 B.79	2663070000 2663070000	TOP 24-230VUC 48VDC0,1A ED2 TOP 24-230VUC 48VDC0,1A ED2	B.80 C.58	2759070000	FSKIT 24VDC 3NO1NC FG LD AGSNO AU	C.129	2765540000 2765550000	DRW373524LT DRW373548LT	C.31 B.175
2618640000	TOP 24VUC 48VDC0.1A	C.57	2663080000	TOP 24-230VUC 24VDC0, IA ED2	B.84	2759070000	FSKIT 24VDC 3NO INC FG LD AGSNO AU	C.129	2765550000	DRW373548LT	C.31
2618640000	TOP 24VUC 48VDC0.1A	C.75	2663090000	TOP 24-230VUC 230VAC1A ED2	B.88	2759090000	FSKIT 24VDC 4NO2NC FG LD AGSNO AU	C.131	2765560000	DRW373615LT	B.175
2618650000	TOP 120VAC RC 48VDC0.1A	B.79	2663100000	TOP 24-230VUC 24VDC3,5A ED2	B.90	2759100000	FSKIT 24VDC 3NO3NC FG LD AGSNO AU	C.131	2765560000	DRW373615LT	C.31
2618650000	TOP 120VAC RC 48VDC0.1A	C.57	2663110000 2663120000	TOP 24-230VUC EMPTY ED2 TRP 24-230VUC 1CO 16A ED2	B.101	0700			2765570000	DRW373730LT	B.175
2618650000 2618660000	TOP 120VAC RC 48VDC0.1A TOP 120VAC RC 24VDC2A	C.75 B.83	2663130000	TRP 24-230VUC 100 HC ED2	B.58 B.60	2/60	000000		2765570000 2765580000	DRW373730LT DRW373900LT	C.31 B.175
2618660000	TOP 120VAC RC 24VDC2A	C.77	2663130000	TRP 24-230VUC 1NO HC ED2	C.16	2765010000	DRR273012L	B.159	2765580000	DRW373900LT	C.31
2618670000	TOP 230VAC RC 24VDC2A	B.83	2663140000	TRP 24-230VUC 1NO HCP ED2	B.61	2765020000	DRR273024L	B.159	2765590000	DRW273012LT	B.175
2618670000 2618680000	TOP 230VAC RC 24VDC2A TOP 120VUC 48VDC0.1A	C.77 B.79	2663140000 2663150000	TRP 24-230VUC 1N0 HCP ED2 TOP 24-230VUC 24VDC5A ED2	C.17 B.91	2765030000 2765040000	DRR273048L DRR273110L	B.159 B.159	2765590000 2765600000	DRW273012LT DRW273024LT	C.31 B.175
2618680000	TOP 120VUC 48VDC0.1A	C.57	2663160000	TRP 24-230VUC 1CO AGSNO ED2	B.40	2765050000	DRR273220L	B.159	2765600000	DRW273024LT	C.31
2618680000	TOP 120VUC 48VDC0.1A	C.75	2000100000	THE ETECOTOR TOUTHOUSE	5.10	2765060000	DRR373012L	B.161	2765610000	DRW273048LT	B.175
2618690000	TOP 230VUC 48VDC0.1A	B.79	26800	000000		2765070000	DRR373024L	B.161	2765610000	DRW273048LT	C.31
2618690000 2618690000	TOP 230VUC 48VDC0.1A TOP 230VUC 48VDC0.1A	C.57 C.75	2680850000	TRP 5VDC 2CO EMPTY	B.101	2765080000 2765090000	DRR373048L DRR373110L	B.161 B.161	2765620000 2765620000	DRW273110LT DRW273110LT	B.175 C.31
2618700000	TOP 24VDC 24VDC3.5A	B.90	2680960000	TRP 12VDC 2C0 EMPTY	B.101	2765100000	DRL173012L	B.165	2765630000	DRW273220LT	B.175
2618710000	TOP 48VUC 48VDC0.1A	B.79	2680970000	TRP 24VDC 2C0 EMPTY	B.101	2765100000	DRL173012L	C.21	2765630000	DRW273220LT	C.31
2618710000	TOP 48VUC 48VDC0.1A	C.57	2680980000	TRP 24VUC 2CO EMPTY	B.101	2765110000	DRL173024L	B.165	2765640000	DRW373012LT	B.175
2618710000	TOP 48VUC 48VDC0.1A	C.75	2680990000	TRP 48VUC 2CO EMPTY	B.101	2765110000	DRL173024L	C.21	2765640000	DRW373012LT	C.31
2618720000 2618720000	TOP 24VDC 24VDC2A TOP 24VDC 24VDC2A	B.83 C.77	2681000000 2681010000	TRP 60VUC 2CO EMPTY TRP 120VUC 2CO EMPTY	B.101 B.101	2765120000 2765120000	DRL173048L DRL173048L	B.165 C.21	2765650000 2765650000	DRW373024LT DRW373024LT	B.175 C.31
2618730000	TOP 24VUC 24VDC2A	B.83	2681020000	TRP 230VUC 2CO EMPTY	B.101	2765130000	DRL173110L	B.165	2765660000	DRW373048LT	B.175
2618730000	TOP 24VUC 24VDC2A	C.77	2681030000	TRP 120VAC RC 2CO EMPTY	B.101	2765130000	DRL173110L	C.21	2765660000	DRW373048LT	C.31
2618740000	TOP 24VDC EMPTY	B.101	2681190000	TRP 230VAC RC 2CO EMPTY	B.101	2765140000	DRL173220L	B.165	2765670000	DRW373110LT	B.175
2618750000 2618750000	TOP 24VDC ACT TOP 24VDC ACT	B.85 C.19	2600	00000		2765140000 2765150000	DRL173220L DRL273012L	C.21 B.167	2765670000 2765680000	DRW373110LT DRW373220LT	C.31 B.175
2618760000	TOP 48VUC 24VDC2A	B.83	2090	000000		2765150000	DRL273012L	C.23	2765680000	DRW373220LT	C.31
2618760000	TOP 48VUC 24VDC2A	C.77	2697250000	TFIS 12-240VUC 1C0 M7C	C.98	2765160000	DRL273024L	B.167			
2618770000	TOP 120VUC 24VDC2A	B.83	2697260000	TFIS 12-240VUC 1C0 CG	C.99	2765160000	DRL273024L	C.23	2770	000000	
2618770000 2618790000	TOP 120VUC 24VDC2A TOP 24VDC 48VDC0.1A	C.77 B.79	2697270000 2697280000	TFIS 12-240VUC 2NO SD TFIS 24-240VUC 1CO ON	C.102 C.100	2765170000 2765170000	DRL273048L DRL273048L	B.167 C.23	2773600000	TOPL 24-110VDC 5-110VDC0.25A	TRAK B.29
2618790000	TOP 24VDC 48VDC0.1A	C.57	2697290000	TFIS 24-240VUC 1CO OFFC	C.101	2765180000	DRL273110L	B.167	2773770000	TRPL 12-60VUC 1CO	B.8
2618790000	TOP 24VDC 48VDC0.1A	C.75				2765180000	DRL273110L	C.23	2773780000	TRPL 12-60VUC 1NO	B.12
2618800000 2618800000	TOP 230VUC 24VDC2A TOP 230VUC 24VDC2A	B.83 C.77	2700	000000		2765190000 2765190000	DRL273220L DRL273220L	B.167 C.23	2773790000 2773800000	TRPL 12-60VUC 2C0 TRPL 120VAC 1C0	B.16 B.7
2618810000	TOP 5VDC 24VDC2A	B.83	2706290000	TRS 24VUC 2CO FG	B.77	2765200000	DRR373220L	B.161	2773810000	TRPL 120VAC 1NO	B.11
2618810000	TOP 5VDC 24VDC2A	C.77	2706290000	TRS 24VUC 2CO FG	C.135	2765210000	DRL373012L	B.169	2773820000	TRPL 120VAC 2CO	B.15
2618820000	TOP 12VDC 24VDC2A	B.83	2706430000	TRP 24VUC 2CO FG	B.77	2765210000	DRL373012L	C.25	2773830000	TRPL 230VAC 1CO	B.7
2618820000 2618840000	TOP 12VDC 24VDC2A TOP 24VDC 24VDC5A	C.77 B.91	2706430000	TRP 24VUC 2CO FG	C.135	2765220000	DRL373024L	B.169	2773840000 2773850000	TRPL 230VAC 1NO TRPL 230VAC 2CO	B.11 B.15
2618870000	TRP 24VDC 1CO EMPTY	B.100	2720	nnnnn		2765220000 2765230000	DRL373024L DRL373048L	C.25 B.169	2773860000	TRPL 24-230VUC 1C0	B.8
2618880000	TRP 120VAC RC 1CO EMPTY	B.100	2/200	000000		2765230000	DRL373048L	C.25	2773870000	TRPL 24-230VUC 1NO	B.12
2618890000	TRP 230VAC RC 1C0 EMPTY	B.100	2723360000	RCH424024FG	B.77	2765240000	DRL373110L	B.169	2773880000	TRPL 24-230VUC 2C0	B.16
2618900000 2618910000	TRP 60VUC 1CO EMPTY TRP 24VUC 1CO EMPTY	B.100 B.100	2723360000	RCH424024FG	C.135	2765240000 2765250000	DRL373110L DRL373220L	C.25 B.169	2773890000 2773900000	TRPL 24VDC 1CO TRPL 24VDC 1CO AU TRAK	B.7 B.25
2618920000	TRP 48VUC 1CO EMPTY	B.100	27/10	000000		2765250000	DRL373220L	C.25	2773910000	TRPL 24VDC 1CO TRAK	B.23
2618930000	TRP 12VDC 1CO EMPTY	B.100				2765260000	DRL573012L	B.171	2773920000	TRPL 24VDC 1NO	B.11
2618940000	TXP SUPPLY	B.102	2749260000	SDS 0.4X2.0X60	B.103	2765260000	DRL573012L	C.27	2773930000	TRPL 24VDC 1NO F	B.19
2618950000 2618960000	TRP 120VUC 1CO EMPTY TRP 230VUC 1CO EMPTY	B.100 B.100	2749320000 2749320000	SDS 0.4X2.5X75 SDS 0.4X2.5X75	B.136 B.140	2765270000 2765270000	DRL573024L DRL573024L	B.171 C.27	2773940000 2773960000	TRPL 24VDC 1NO TRAK TRPL 24VDC 2CO	B.27 B.15
2618970000	TOP 60VUC 24VDC2A	B.83	2749340000	SDS 0.6X3.5X100	B.103	2765280000	DRL573048L	B.171	2773970000	TRPL 24VUC 1CO	B.73
2618970000	TOP 60VUC 24VDC2A	C.77	2749340000	SDS 0.6X3.5X100	B.196	2765280000	DRL573048L	C.27	2773980000	TRPL 24VUC 1NO	B.11
			2749340000	SDS 0.6X3.5X100	C.145	2765290000	DRL573110L	B.171	2773990000	TRPL 24VUC 2CO	B.15
2630	000000		2749340000 2749340000	SDS 0.6X3.5X100 SDS 0.6X3.5X100	C.150 C.151	2765290000 2765300000	DRL573110L DRL573220L	C.27 B.171	2774000000 2774010000	TRPL 48-110VDC 1CO AU TRAK TRPL 48-110VDC 1CO TRAK	B.25 B.23
2633940000	SCS 24VDC P1SIL3ES LL	C.124	2749410000	SDK PH1 X 80	B.136	2765300000	DRL573220L	C.27	2774020000	TRPL 48-110VDC 1NO TRAK	B.27
2634010000	SCS 24VDC P1SIL3ES LL-T	C.125	2749410000	SDK PH1 X 80	B.137	2765310000	DRR273524L	B.159	2774030000	TRPL 5VDC 1CO	B.7
2639560000	TRS T 24VDC 1CO M3	B.74	2749410000	SDK PH1 X 80	B.140	2765320000	DRR273615L	B.159	2774040000	TRPL 5VDC 1NO	B.11
2639560000 2639720000	TRS T 24VDC 1CO M3 TRS T 24VDC 1CO M3 EMPTY	C.94 B.75	2749410000 2749410000	SDK PH1 X 80 SDK PH1 X 80	B.141 B.157	2765330000 2765340000	DRR273730L DRR373524L	B.159 B.161	2774050000 2774080000	TRPL 5VDC 2CO TXPL FT	B.15 B.102
2639720000	TRS T 24VDC 1CO M3 EMPTY	C.95	2749410000	SDK PH1 X 80	B.157 B.162	2765350000	DRR373615L	B.161	2774080000	TXLPP	B.102 B.103
2639730000	TRP T 24VDC 1CO M3	B.74	2749420000	SDK PH2 X 100	B.172	2765360000	DRR373730L	B.161	2774100000	TXPLS	B.102
2639730000	TRP T 24VDC 1C0 M3	C.94	2749420000	SDK PH2 X 100	B.173	2765370000	DRL173524L	B.165			
2639740000 2639740000	TRP T 24VDC 1CO M3 EMPTY TRP T 24VDC 1CO M3 EMPTY	B.75 C.95	2749420000 2749420000	SDK PH2 X 100 SDK PH2 X 100	B.182 C.28	2765370000 2765380000	DRL173524L DRL173615L	C.21 B.165	2810	000000	
2000140000	THE 1 ZTYDO TOO IND EIVIF I I	0.33	2749420000	SDK PH2 X 100	C.29	2765380000	DRL173615L	C.21	2810830000	ZQV 4N/10 BK	B.196
2660	000000		2749420000	SDK PH2 X 100	C.38	2765390000	DRL173730L	B.165	2810830000	ZQV 4N/10 BK	C.150
			2749450000	SDK PZ2 X 100	C.145	2765390000	DRL173730L	C.21	2810830000	ZQV 4N/10 BK	C.151
2662850000 2662860000	TRS 24-230VUC 1C0 ED2 TRS 24-230VUC 1C0 AU ED2	B.36 B.37	2749650000 2749650000	SDIK SLIM PH1 X 80 SDIK SLIM PH1 X 80	B.157 B.162	2765400000 2765400000	DRL273524L DRL273524L	B.167 C.23	2810840000 2810840000	ZQV 4N/2 BK ZQV 4N/2 BK	B.196 C.150
2662860000	TRS 24-230VUC 1C0 AU ED2	C.52	2749660000	SDIK SLIM PH2 X 100	B.102 B.172	2765410000	DRL273615L	B.167	2810840000	ZQV 4N/2 BK	C.150
2662870000	TRS 24-230VUC 1C0 EMPTY ED2	B.100	2749660000	SDIK SLIM PH2 X 100	B.173	2765410000	DRL273615L	C.23	2810870000	ZQV 4N/20 BK	B.196

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2810870000 2810870000	ZQV 4N/20 BK ZQV 4N/20 BK	C.150 C.151	3052510000 3052520000	CRI20024T CRI20048T	B.115 B.115	4061220000 4061230000	SSS RELAIS 60V/230V 1AAC SSS RELAIS 60V/24V 0,1ADC	B.99 B.99	7760056092 7760056093	DRM570524L DRM570548L	B.155 B.155
2810880000	ZQV 4N/3 BK	B.196	3052530000	CRI20110T	B.115	4061580000	RSS113005	B.98	7760056094	DRM570615L	B.155
2810880000 2810880000	ZQV 4N/3 BK ZQV 4N/3 BK	C.150 C.151	3052540000 3052550000	CRI20524T CRI20615T	B.115 B.115	4061590000 4061600000	RSS112024 RSS112060	B.98 B.98	7760056095 7760056096	DRM570730L DRM570012LT	B.155 B.155
2810890000	ZQV 4N/4 BK	B.196	3052560000	CRI20730T	B.115	4061610000	RSS113012	B.98	7760056097	DRM570024LT	B.155
2810890000 2810890000	ZQV 4N/4 BK ZQV 4N/4 BK	C.150 C.151	3052570000 3052590000	CSI P 2CO CSI S 2CO	B.116	4061630000 4064310000	RSS113060	B.98	7760056098 7760056099	DRM570048LT DRM570110LT	B.155 B.155
2010090000	ZUV 4IV/4 DK	6.101	3052620000	CXI CCS 8P GY	B.116 B.116	4064320000	SSS RELAIS 5V/24V 2ADC SSS RELAIS 5V/24V 0,1ADC	B.99 B.99	7760056100	DRM570220LT	B.155
2850	000000		3052630000	CXI CLIP LM	B.116				7760056101	DRM570524LT	B.155
2851620000	RSS111024T	B.98	3052640000 3052650000	CXI CLIP HM CXI CCP 2P RD	B.116 B.116	40/0	000000		7760056102 7760056103	DRM570548LT DRM570615LT	B.155 B.155
2851640000	RSS113024Y	B.98	3052660000	CXI CCP 2P BL	B.116	4074580000	RCL425012	B.98	7760056104	DRM570730LT	B.155
2855800000 2855810000	TRP 24VDC 1CO AGSNO PB TRP 24VUC 1CO AGSNO PB	B.43 B.43	3052690000 3052700000	CXI CCP 8P RD CXI CCP 8P BL	B.116 B.116	77600	00000		7760056105 7760056106	DRM570024LD FS 2C0	B.155 B.153
2855820000	TRP 24VUC 1CO AGSNO AU PB	B.47	3052710000	CXI CLIP P	B.116		000000		7760056107	FS 4CO	B.157
2855830000 2855840000	TRP 24VDC 1CO AGSNO AU PB TRP 24VDC ACT PB	B.47 B.54	3052720000 3052730000	CRM20012 CRM20024	B.119 B.119	7760056014 7760056014	RIM 3 110/230VAC RIM 3 110/230VAC	B.136 B.140	7760056108 7760056108	DRM/DRL CLIP M DRM/DRL CLIP M	B.152 B.153
2855840000	TRP 24VDC ACT PB	C.18	3052740000	CRM20048	B.119	7760056014	RIM 3 110/230VAC	B.152	7760056108	DRM/DRL CLIP M	B.156
2855850000 2855850000	TRS 24VDC ACT PB TRS 24VDC ACT PB	B.54 C.18	3052750000 3052760000	CRM20110 CRM20524	B.119 B.119	7760056014 7760056014	RIM 3 110/230VAC RIM 3 110/230VAC	B.156 B.157	7760056108 7760056108	DRM/DRL CLIP M DRM/DRL CLIP M	B.157 B.172
2855860000	TRS 24VDC 1CO AGSNO AU PB	B.47	3052770000	CRM20615	B.119	7760056014	RIM 3 110/230VAC	B.172	7760056108	DRM/DRL CLIP M	C.28
2855870000	TRS 24VDC 1CO AGSNO PB	B.43	3052780000	CRM20730	B.119	7760056014	RIM 3 110/230VAC	C.28	7760056169	RIM 1 6/230VDC	B.136
2855880000 2855890000	TRS 24VUC 1CO AGSNO AU PB TRS 24VUC 1CO AGSNO PB	B.47 B.43	3052790000	CRM20012T CRM20024T	B.119 B.119	7760056015 7760056015	RIM 2 6/24VDC RIM 2 6/24VDC	B.136 B.140	7760056169 7760056169	RIM 1 6/230VDC RIM 1 6/230VDC	B.140 B.152
2855900000	TRP 24-230VUC 1CO AGSNO AU ED2 PB	B.48	3052810000	CRM20048T	B.119	7760056015	RIM 2 6/24VDC	B.152	7760056169	RIM 1 6/230VDC	B.156
2855910000 2855920000	TRP 24-230VUC 1CO AGSNO ED2 PB TRS 24-230VUC 1CO AGSNO AU ED2 PB	B.44 B.48	3052820000 3052830000	CRM20110T CRM20524T	B.119 B.119	7760056015 7760056015	RIM 2 6/24VDC RIM 2 6/24VDC	B.156 B.157	7760056169 7760056169	RIM 1 6/230VDC RIM 1 6/230VDC	B.157 B.172
2855930000	TRS 24-230VUC 1CO AGSNO ED2 PB	B.44	3052840000	CRM20615T	B.119	7760056015	RIM 2 6/24VDC	B.172	7760056169	RIM 1 6/230VDC	C.28
2000			3052850000 3052860000	CRM20730T CRM20012TLD	B.119 B.119	7760056015 7760056016	RIM 2 6/24VDC RIM 2 24/60VDC	C.28 B.136	7760056225 7760056225	SLD F 2CO SLD F 2CO	B.172 C.28
	000000		3052870000	CRM20024TLD	B.119	7760056016	RIM 2 24/60VDC	B.136 B.140	7760056226	SLD F 3CO	B.172
2860020000	FSKIT 24VDC 5NO1NC FG LD AGSNO AU	C.131	3052880000	CRM20048TLD	B.119	7760056016	RIM 2 24/60VDC	B.152	7760056226	SLD F 3CO	C.28
2000	000000		3052890000 3052900000	CRM20110TLD CRM20524TL	B.119 B.119	7760056016 7760056016	RIM 2 24/60VDC RIM 2 24/60VDC	B.156 B.157	7760056227 7760056227	SLD F 4CO SLD F 4CO	B.173 C.29
			3052910000	CRM20615TL	B.119	7760056016	RIM 2 24/60VDC	B.172	7760056234	SLD CLIP 3CO M	B.172
2883800000 2883800000	ZQV 4N/20 ZQV 4N/20	B.196 C.150	3052920000 3052930000	CRM20730TL CRM40012	B.119 B.121	7760056016 7760056017	RIM 2 24/60VDC RIM 2 110/230VDC	C.28 B.136	7760056234 7760056235	SLD CLIP 3CO M SLD CLIP 4CO M	C.28 B.173
2883800000	Z0V 4N/20	C.151	3052940000	CRM40024	B.121	7760056017	RIM 2 110/230VDC	B.140	7760056235	SLD CLIP 4CO M	C.29
2000	00000		3052950000 3052960000	CRM40048 CRM40110	B.121 B.121	7760056017 7760056017	RIM 2 110/230VDC RIM 2 110/230VDC	B.152 B.156	7760056249 7760056249	TEST LEVER BLOCK DRH/DRW TEST LEVER BLOCK DRH/DRW	B.177 B.179
	000000		3052970000	CRM40524	B.121	7760056017	RIM 2 110/230VDC	B.157	7760056249	TEST LEVER BLOCK DRH/DRW	B.181
2898310000 2898320000	TFIP 12-240VUC 1C0 CG TFIP 12-240VUC 1C0 M7C	C.99 C.98	3052980000 3052990000	CRM40615 CRM40730	B.121 B.121	7760056017 7760056017	RIM 2 110/230VDC RIM 2 110/230VDC	B.172 C.28	7760056249 7760056249	TEST LEVER BLOCK DRH/DRW TEST LEVER BLOCK DRH/DRW	C.33 C.35
2898330000	TFIP 24-240VUC 1C0 0FFC	C.101	3053000000	CRM40012T	B.121	7760056017	RIM 3 24/60VUC	B.136	7760056249	TEST LEVER BLOCK DRH/DRW	C.37
2898340000	TFIP 24-240VUC 1CO ON	C.100	3053010000	CRM40024T	B.121	7760056018	RIM 3 24/60VUC	B.140	7760056263	SCM 2CO ECO	B.152
2000	000000		3053020000 3053030000	CRM40048T CRM40110T	B.121 B.121	7760056018 7760056018	RIM 3 24/60VUC RIM 3 24/60VUC	B.152 B.156	7760056264 7760056296	SCM 4C0 EC0 DRI314012	B.156 B.135
			3053040000	CRM40524T	B.121	7760056018	RIM 3 24/60VUC	B.157	7760056297	DRI314024	B.135
2986890000 2986900000	PSSRN K 24VDC 1Z K 240VAC 20A PSSRN K 24VDC 1Z K 600VAC 30A	C.140 C.141	3053050000 3053060000	CRM40615T CRM40730T	B.121 B.121	7760056018 7760056018	RIM 3 24/60VUC RIM 3 24/60VUC	B.172 C.28	7760056298 7760056300	DRI314048 DRI314524	B.135 B.135
2986910000	PSSRN K 24VDC 3Z K 600VAC 20A	C.144	3053070000	CRM40012TLD	B.121	7760056045	RIM 3 110/230VAC LED	B.136	7760056301	DRI314615	B.135
2986920000 2986930000	PSSRN S 24VDC 1M K 600VAC 30A T PSSRN K 24VDC 1D K 1000VDC 15A	C.142 C.143	3053080000 3053090000	CRM40024TLD CRM40048TLD	B.121 B.121	7760056045 7760056045	RIM 3 110/230VAC LED RIM 3 110/230VAC LED	B.140 B.152	7760056302 7760056303	DRI314730 DRI314012L	B.135 B.135
2988280000	TRP 24VDC 1CO 16A PB	B.51	3053100000	CRM40110TLD	B.121	7760056045	RIM 3 110/230VAC LED	B.156	7760056304	DRI314024L	B.135
2988300000 2988310000	TRP 24VUC 1CO 16A PB TRP 120VUC 1CO 16A PB	B.51 B.51	3053110000 3053120000	CRM40524TL CRM40615TL	B.121 B.121	7760056045 7760056045	RIM 3 110/230VAC LED RIM 3 110/230VAC LED	B.172 C.28	7760056305 7760056306	DRI314048L DRI314110L	B.135 B.135
2988320000	TRP 230VUC 1CO 16A PB	B.51	3053130000	CRM40730TL	B.121	7760056050	DRM270012	B.151	7760056307	DRI314524L	B.135
2988330000	TRP 24-230VUC 1CO 16A ED2 PB	B.52	3053140000	CSM P 4C0	B.122	7760056051	DRM270024	B.151	7760056308	DRI314615L	B.135
2988340000 2988350000	TRP 24VDC 2CO PB TRP 24VUC 2CO PB	B.71 B.71	3053160000 3053180000	CSM S 4CO CXM CCS 6P GY	B.122 B.122	7760056052	DRM270048 DRM270110	B.151 B.151	7760056309 7760056310	DRI314730L DRI314012LD	B.135 B.135
2988360000	TRP 120VUC 2CO PB	B.71	3053190000	CXM CLIP M	B.122	7760056054	DRM270220	B.151	7760056311	DRI314024LD	B.135
2988370000 2988380000	TRP 230VUC 2C0 PB TRP 24-230VUC 2C0 ED2 PB	B.71 B.72	3053200000 3053220000	CXM CCP 8P RD CXM CCP 2P RD	B.122 B.122	7760056055 7760056056	DRM270524 DRM270548	B.151 B.151	7760056312 7760056313	DRI314048LD DRI314110LD	B.135 B.135
2988390000	TRS 24VDC 1CO 16A PB	B.51	3053230000	CXM CCP 2P BL	B.122	7760056057	DRM270615	B.151	7760056314	DRI314012LTD	B.135
2988400000 2988410000	TRS 24VUC 1CO 16A PB TRS 120VUC 1CO 16A PB	B.51 B.51	3053240000 3053250000	CXM CLIP P CXX JMP 2P RD	B.122 B.122	7760056058 7760056059	DRM270730 DRM270012L	B.151 B.151	7760056315 7760056316	DRI314024LTD DRI314048LTD	B.135 B.135
2988420000	TRS 230VUC 1CO 16A PB	B.51	3053260000	CXX JMP 2P BL	B.122	7760056060	DRM270024L	B.151	7760056317	DRI314110LTD	B.135
2988430000 2988440000	TRS 24-230VUC 1CO 16A ED2 PB TRS 24VDC 2CO PB	B.52 B.71	3053270000 3053290000	CXX D 21N CXX LD 41R	B.122 B.122	7760056061 7760056062	DRM270048L DRM270110L	B.151 B.151	7760056318 7760056319	DRI314524LT DRI314615LT	B.135 B.135
2988450000	TRS 24VUC 2CO PB	B.71	3053310000	CXX LD 41G	B.122	7760056062	DRM270220L	B.151	7760056320	DRI314730LT	B.135
2988460000	TRS 120VUC 2CO PB	B.71	3053320000	CXX LD 42R	B.122	7760056064	DRM270524L	B.151	7760056321	DRI424012	B.139
2988470000 2988480000	TRS 230VUC 2C0 PB TRS 24-230VUC 2C0 ED2 PB	B.71 B.72	3053340000 3053370000	CXX LD 42G CXX RC 51	B.122 B.122	7760056065 7760056066	DRM270548L DRM270615L	B.151 B.151	7760056322 7760056323	DRI424024 DRI424048	B.139 B.139
			3053390000	CXX RC 52	B.122	7760056067	DRM270730L	B.151	7760056324	DRI424110	B.139
3050	000000		3053400000 3053410000	CXX RC 53 CXX L 61R	B.122 B.122	7760056068 7760056069	DRM270012LT DRM270024LT	B.151 B.151	7760056325 7760056326	DRI424524 DRI424615	B.139 B.139
3052280000	CRI10012	B.113	3053420000	CXXL61G	B.122	7760056070	DRM270048LT	B.151	7760056327	DRI424730	B.139
3052290000 3052300000	CRI10024 CRI10048	B.113 B.113	3053440000 3053470000	CXXL62G CXXV71	B.122 B.122	7760056071 7760056072	DRM270110LT DRM270220LT	B.151 B.151	7760056328 7760056329	DRI424012L DRI424024L	B.139 B.139
3052310000	CRI10110	B.113	3053480000	CXXV72	B.122	7760056072	DRM270524LT	B.151	7760056330	DRI424048L	B.139
3052320000	CRI10524	B.113	3053490000	CXXV73	B.122	7760056074	DRM270548LT	B.151	7760056331	DRI424110L	B.139
3052330000 3052340000	CRI10615 CRI10730	B.113 B.113	4050 (000000		7760056075 7760056076	DRM270615LT DRM270730LT	B.151 B.151	7760056332 7760056333	DRI424524L DRI424615L	B.139 B.139
3052350000	CRI10012T	B.113				7760056077	DRM270024LD	B.151	7760056334	DRI424730L	B.139
3052360000 3052370000	CRI10024T CRI10048T	B.113 B.113	4058560000 4058570000	RCL424012 RCL424024	B.98 B.98	7760056078 7760056079	DRM570012 DRM570024	B.155 B.155	7760056335 7760056336	DRI424012LD DRI424024LD	B.139 B.139
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3052390000 3052400000	CRI10524T CRI10615T	B.113 B.113	4058590000 4058750000	RCL424110 RCL424048	B.98 B.98	7760056081 7760056082	DRM570110 DRM570220	B.155 B.155	7760056338 7760056339	DRI424110LD DRI424012LTD	B.139 B.139
3052410000	CRI10730T	B.113	4058760000	RCL424060	B.98	7760056083	DRM570524	B.155	7760056340	DRI424012LTD DRI424024LTD	B.139 B.139
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3052460000 3052470000	CRI20524 CRI20615	B.115 B.115	4061180000 4061190000	SSS RELAIS 24V/24V 0,1ADC SSS RELAIS 24V/24V 2ADC	B.99 B.99	7760056088 7760056089	DRM570024L DRM570048L	B.155 B.155	7760056345 7760056348	DRI424730LT SDI 1CO F ECO	B.139 B.137
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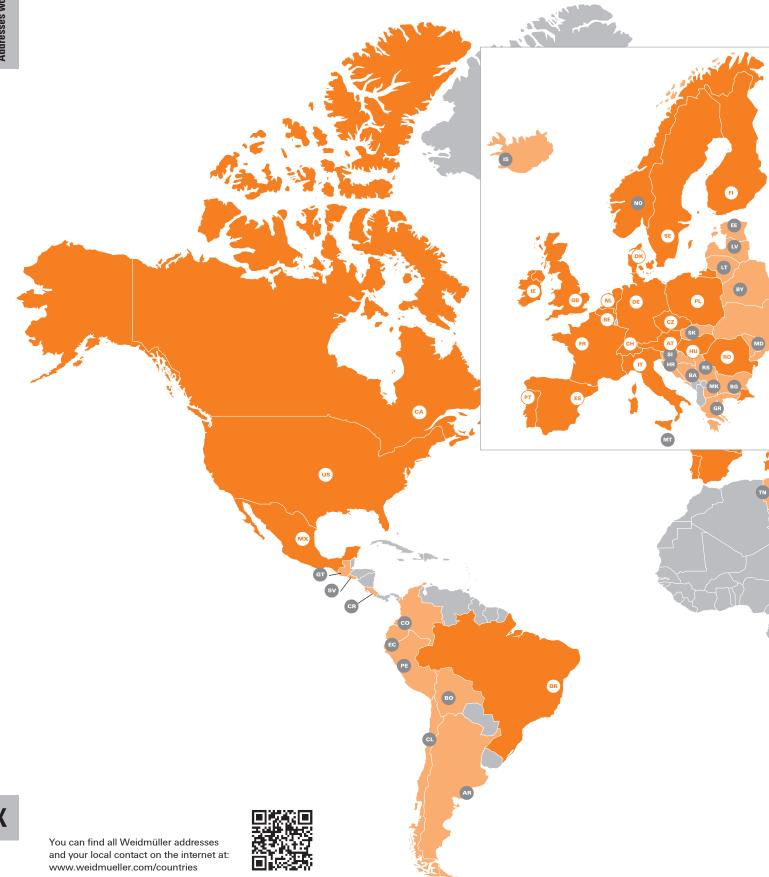
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