TERMSERIES
TOZ 24VDC 24VDC2A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
Fon: +49 5231 14-0
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TERMSERIES complete solid-state relay modules 3 to 33 V DC 2 A output versions consisting of
a solid-state relay and a base with AC/DC/UC input;
available in different designs:

- With tension-clamp connection
- In 6.4 mm width
- Optionally with multiple-voltage input: 24 to 230 V UC
- With various protective circuits
  in the input (free-wheel diode, RC element)
- Illuminated ejection lever

General ordering data

Type	TOZ 24VDC 24VDC2A
Order No.	1127290000
Version	TERMSERIES, solid-state relais, 1 NO contact (MOS-FET), Rated control voltage: 24 V DC ±20 % , Rated switching voltage: 3...33 V DC, Continuous current: 2 A, Tension clamp connection
GTIN (EAN)	4032248908875
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Width	6.4 mm	Width (inches)	0.252 inch
Height	90.5 mm	Height (inches)	3.563 inch
Depth	87.8 mm	Depth (inches)	3.457 inch
Net weight	29.3 g		

Temperatures

Humidity	5–95% rel. humidity, T_u = 40°C, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-40 °C	Operating temperature	-20 °C...60 °C
Storage temperature	-40 °C...70 °C		

Probability of failure

MTTF	1,077 Years

Control side

Rated control voltage	24 V DC ±20 %	Nominal control current	11.5 mA DC (±20%)
Power rating	0.29 W	Cut-in / dropout voltage	14 V / 12.5 V DC
Cut-in / dropout current	6.2 mA / 5.4 mA DC	Status indicator	Green LED
Protective circuit	Free-wheel diode, Reverse polarity protection	Coil voltage of the replacement relay deviating from the rated control voltage	No
Coil voltage of the replacement relay	24 V DC		

Load side

Rated switching voltage	3...33 V DC	Continuous current	2 A
Rated switching current	2 A	Inrush current	15 A / 10 ms
Switch-on delay	≤0,1 ms	Switch-off delay	< 1 ms
Voltage drop at max. load	≤ 120 mV	Leakage current	< 10 µA
Min. switching current	5 mA	Short-circuit-proof	No
Protective circuit, load side	Free-wheel diode	max. switching frequency (DC control voltage)	300 Hz

Contact data

Contact type	1 NO contact (MOS-FET)

General data

Mounting rail	TS 35	UL 94 flammability rating	V-0

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 5.5 mm
Dielectric strength for control side - load side	2.5 kV_{eff}	Dielectric strength to mounting rail	4 kV_{eff} / 1 min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Protection degree	IP20

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Technical data

Further details of approvals / standards

Standards	DIN EN 50178	Certificate no. (cULus)	E141197

Connection data

Wire connection method	Tension clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.14 mm²
Clamping range, max.	2.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.14 mm²
Wire cross-section, solid, max.	2.5 mm²	Wire connection cross-section, finely stranded, min.	0.14 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 14	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.14 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Twin wire-end ferrules, min.	0.5 mm²
Twin wire-end ferrules, max.	1 mm²	Blade size	0.6 x 3.5 mm
Gauge to IEC 60947-1	A1, B1		

Rated data UL

Ambient temperature (operational), max.	60 °C	Connection cross-section AWG, min.	AWG 26
Connection cross-section AWG, max.	AWG 14	Type of conductor	rigid copper conductor, flexible copper conductor
Pollution severity level	2		

Classifications

ETIM 4.0	EC001504	ETIM 5.0	EC001504
ETIM 6.0	EC001504	eClass 6.2	27-27-09-90
eClass 7.1	27-27-09-90	eClass 8.1	27-27-09-90
eClass 9.0	27-27-09-90	eClass 9.1	27-37-16-04

Product information

Descriptive text ordering data	Spare solid-state relay Type: SSS 24 V/24 V 2 A DC Orderno.: 4061190000
Descriptive text technical data	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page.

Approvals

Approvals	
ROHS	Conform

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Technical data

Downloads

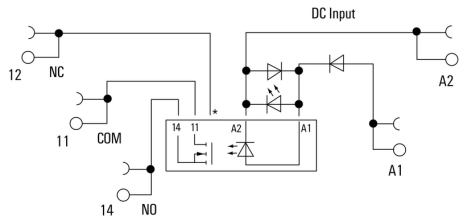
Approval/Certificate/Document of Conformity	DE_PA_5600_160229_002.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Operating Instructions

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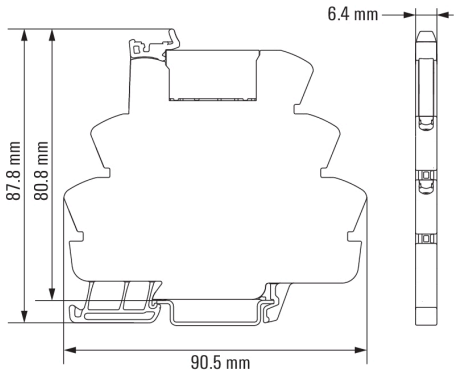
Drawings

Wiring diagram



*Conntact is assembled in socket but not used with solid-state relays

Dimensional drawing

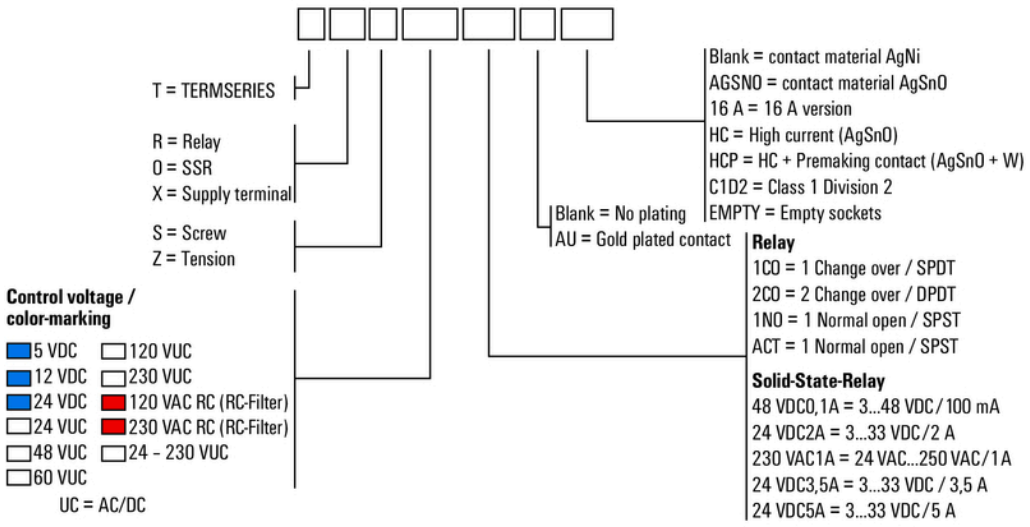


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Drawings

Miscellaneous



Type codes