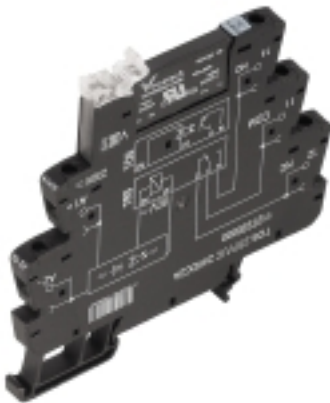


TERMSERIES
TOS 24-230VUC 230VAC1A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

TERMSERIES complete solid-state relay modules 24 to 230 V AC 1 A output versions consisting of a solid-state relay and a base with AC/DC/UC input; available in different designs:

- With screw 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	TOS 24-230VUC 230VAC1A
Order No.	1127500000
Version	TERMSERIES, solid-state relays, 1 NO contact (Triac (zero-cross switch)), Rated control voltage: 24...230 V UC $\pm 10\%$, Rated switching voltage: 24...240 V AC, Continuous current: 1 A, Screw connection
GTIN (EAN)	4032248909056
Qty.	10 pc(s).

Creation date April 14, 2020 3:00:54 AM CEST

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Technical data
Dimensions and weights

Width	6.4 mm	Width (inches)	0.252 inch
Height	89.6 mm	Height (inches)	3.528 inch
Depth	87.8 mm	Depth (inches)	3.457 inch
Net weight	34 g		

Temperatures

Humidity	5-95% relative humidity, $T_u = 40^\circ\text{C}$, without 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	803 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Ambient temperature (operational), max. 40 °C	Connection cross-section AWG, min.	AWG 26
Connection cross-section AWG, max.	Type of conductor	rigid copper conductor, flexible copper conductor
AWG 14	Pollution severity level	2
Tightening torque, max.		
0.4 Nm		

Control side

Rated control voltage	Nominal control current	21.8 mA DC @ 24 V DC, 24.8 mA AC @ 24 V AC, 2.4 mA DC @ 230 V DC, 4.6 mA AC @ 230 V AC
24...230 V UC $\pm 10\%$	Cut-in / dropout voltage	10.5 V / 7.7 V AC 11.5 V / 6.5 V DC
Power rating	Status indicator	Green LED
525 mW @ 24 V DC, 600 mVA @ 24 V AC, 550 mW @ 230 V DC, 1.1 VA @ 230 V AC	Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Cut-in / dropout current		
20.5 mA / 14 mA AC 20 mA / 9 mA DC		
Protective circuit		
Rectifier		
Coil voltage of the replacement relay		
24 V DC		

Load side

Rated switching voltage	Continuous current	1 A
24...240 V AC	Switch-on delay	< 20 ms
Inrush current	Voltage drop at max. load	$\leq 1\text{ V}$
15 A / 10 ms	Min. switching current	20 mA
Switch-off delay	Protective circuit, load side	RC element
< 125 ms	max. switching frequency (AC control voltage)	3 Hz
Leakage current		
< 1.5 mA		
Short-circuit-proof		
No		
Output voltage frequency range		
50 / 60 Hz		
max. switching frequency (DC control voltage)		
3 Hz		

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Technical data
Contact data

Contact type	1 NO contact (Triac (zero-cross switch))
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General data

Rail	TS 35	Colour	black
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

Further details of approvals / standards

Standards	DIN EN 50178	Certificate No. (DNVGL)	TAA00001E5
Certificate no. (cULus)	E141197		

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	0.4 Nm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.14 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.14 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross-section, finely stranded, min.	0.14 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
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.	0.25 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	1 mm ²
Blade size	size PHO	Gauge to IEC 60947-1	A1, B1

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
eClass 9.0	27-37-16-04	eClass 9.1	27-37-16-04
eClass 10.0	27-37-16-04		

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Technical data

Approvals

Approvals



ROHS

Conform

Downloads

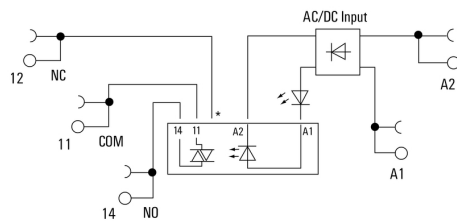
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN_WSCAD
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual

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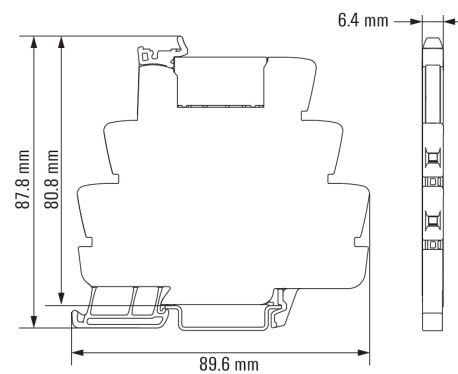
Drawings

Wiring diagram



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

Dimensional drawing



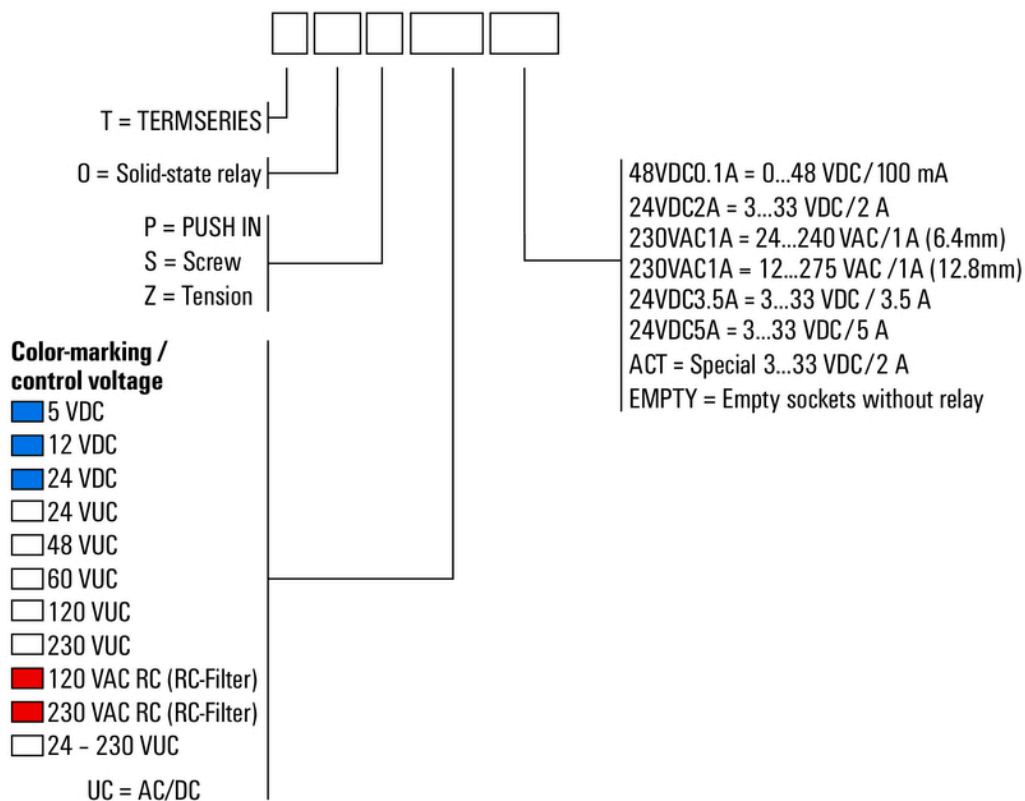
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Drawings

Miscellaneous

Type code TERMSERIES solid-state relay versions



Type codes