

TERMSERIES
TRP 12VDC 2CO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Product image

Similar to illustration

TERMSERIES relay module, complete modules consisting of

a relay and a base with AC/DC/UC coils,
available in different versions:

- With screw and tension-clamp connection
- AgNi contact, optionally with hard gold-plated contacts
- 1 and 2 COs
- Optionally with multiple-voltage input: 24...230 V UC
- With various protective circuits
in the input (free-wheel diode, RC element)
- Illuminated ejection lever

General ordering data

Type	TRP 12VDC 2CO
Order No.	2618550000
Version	TERMSERIES, Relay module, Number of contacts: 2 CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, PUSH IN
GTIN (EAN)	4050118670288
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	12.8 mm	Width (inches)	0.504 inch
Height	89.4 mm	Height (inches)	3.52 inch
Depth	87.8 mm	Depth (inches)	3.457 inch
Net weight	57 g		

Temperatures

Humidity	5-95% relative humidity, $T_u = 40^\circ\text{C}$, without condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...60 °C
Storage temperature	-40 °C...85 °C		

Rated data UL

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
Altitude	≤ 2000 m, above sea level		

Input

Rated control voltage	12 V DC ± 20 %	Rated current DC	33 mA
Power rating	400 mW	Pull-in/drop-out voltage, typ.	9 V / 2 V DC
Pull-in/drop-out current, typ.	24 mA / 5 mA DC	Status indicator	Green LED
Protective circuit	Free-wheeling diode, Reverse polarity protection	Coil voltage of the replacement relay deviating from the rated control voltage	No
Coil voltage of the replacement relay	12 V DC		

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Continuous current	8 A
Inrush current	15 A / 4 s	AC switching capacity (resistive), max.	2000 VA
DC switching capacity (resistive), max.	192 W @ 24 V	Switch-on delay	≤ 8 ms
Switch-off delay	≤ 12 ms	Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Max. switching frequency at rated load	0.1 Hz		

Contact data

Contact type	2 CO contact (AgNi)	Mechanical service life	30 x 10 ⁶ switching cycles
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General data

Rail	TS 35	Test button	No
Mechanical switch position indicator	No	Colour	black
UL 94 flammability rating	V-0		

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Technical data
Insulation coordination

Rated voltage	300 V	Surge voltage category	III
Pollution severity	2	Protection degree	IP20
Dielectric strength, Input/Output	1.2 kV _{eff} / 5 s	Creepage and clearance distance input – output	≥ 5.5 mm
Dielectric strength of neighbouring contacts	2.5 kV _{eff}	Dielectric strength of open contact	1 kV _{eff} / 1 min
Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.	Impulse withstand voltage	6 kV (1.2/50 µs)

Further details of approvals / standards

Standards	EN 50178, EN 55011, EN 61000-6-1, 2, 4	Certificate No. (DNVGL)	TAA00001E5
Certificate no. (cULus)	E141197		

Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	8 mm
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.	0.15 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.15 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²	Twin wire-end ferrules, min.	0.5 mm ²
Twin wire-end ferrules, max.	1 mm ²	Blade size	0.4 x 2.0 mm

Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
eClass 9.0	27-37-16-01	eClass 9.1	27-37-16-01
eClass 10.0	27-37-16-01		

Approvals

Approvals


Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual

Creation date May 5, 2020 9:12:52 PM CEST

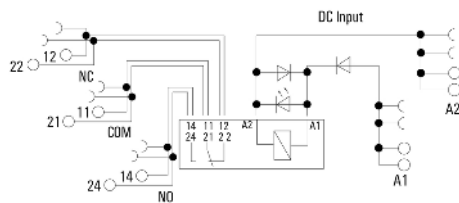
Catalogue status 01.05.2020 / We reserve the right to make technical changes.

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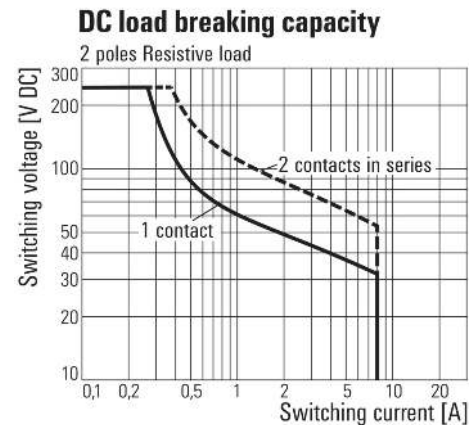
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Drawings

Wiring diagram

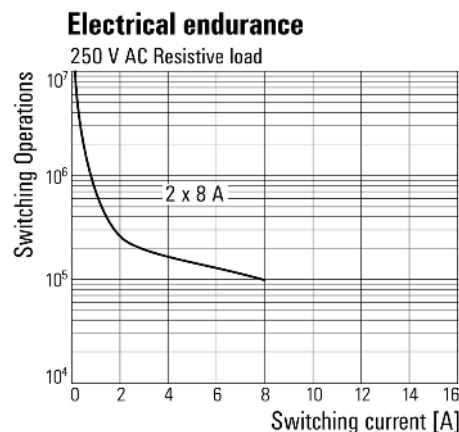


Graph



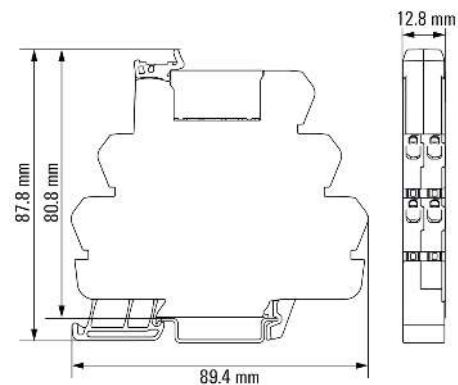
DC load limit curve

Graph



Electrical service life 230 V AC resistive load
230 V AC resistive load

Dimensional drawing



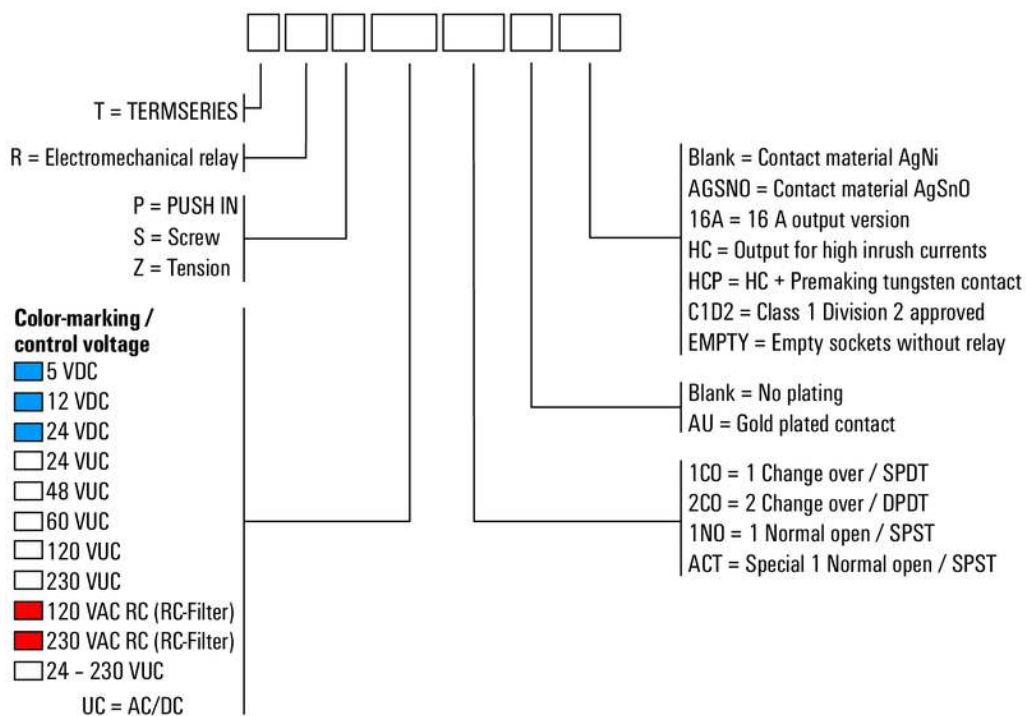
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Drawings

Miscellaneous

Type code TERMSERIES electromechanical relay versions



Type codes