

TRP 24VUC 2CO FG

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Positive guidance ensures a synchronous switching status at both contacts and achieves a diagnostic coverage of 99%
- UL approval for the North American market
- Ejection lever with integrated marker channels

General ordering data

Version	TERMSERIES, Relay module with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgNi, Rated control voltage: 24 V UC $\pm 10\%$, Continuous current: 6 A, PUSH IN, Test button: No
Order No.	2706430000
Type	TRP 24VUC 2CO FG
GTIN (EAN)	4050118892819
Qty.	5 pc(s).

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Technical data

Dimensions and weights

Depth	87.8 mm	Depth (inches)	3.457 inch
Height	97.5 mm	Height (inches)	3.839 inch
Net weight	60.5 g	Width	12.8 mm
Width (inches)	0.504 inch		

Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-25 °C...60 °C
Humidity	5...85 %, no condensation		

Rated data UL

Operating altitude	≤ 2000 m, above sea level	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

Control side

Coil voltage of the replacement relay	24 V DC	Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Power rating	585 mVA, 565 mW	Protective circuit	Rectifier
Pull-in/drop-out current, typ.	21.5 mA / 9.5 mA AC 20.5 mA / 6.5 mA DC	Pull-in/drop-out voltage, typ.	21 V / 11 V AC 21 V / 9 V DC
Rated control voltage	24 V UC ± 10 %	Rated current AC	24.4 mA
Rated current DC	23.5 mA	Status indicator	Green LED

Load side

AC switching capacity (resistive), max.	1500 VA	Continuous current	6 A
DC switching capacity (resistive), max.	144 W @ 24 V	Max. switching frequency at rated load	0.1 Hz
Max. switching voltage, AC	250 V	Max. switching voltage, DC	250 V
Min. switching power	10 mA @ 5 V	Rated switching voltage	250 V AC
Switch-off delay	≤ 20 ms	Switch-on delay	≤ 30 ms

Contact data

Contact type	2 CO contacts forcibly guided (EN 61810-3 type B) (AgNi)	Mechanical service life	10 x 10 ⁶ switching cycles
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General data

Rail	TS 35	Test button	No
Mechanical switch position indicator	No	Colour	black

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Insulation coordination

Clearance and creepage distances for control side - load side	≥ 6 mm	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 of open contact	1.5 kV _{eff} / 1 min.
Dielectric strength to mounting rail	3.51 kV _{eff} / 1 min.	Impulse withstand voltage at neighbouring contacts	4 kV (1.2/50 µs)
Pollution severity	2	Protection degree	IP20
Rated voltage	300 V	Surge voltage category	III
Type of isolation at input and output	reinforced insulation	Type of isolation at neighbouring contacts	Basic insulation

Further details of approvals / standards

Standards	EN 61326-1, EN 61010-2-201	Certificate no. (cULus)	E141197
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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 cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 14	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	ECLASS 11.0	27-37-16-01

Approvals

Approvals



UL File Number Search E141197

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Technical data

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual
Brochure/Catalogue	Catalogues in PDF-format

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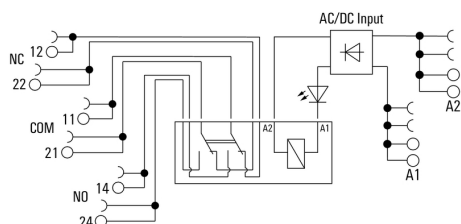
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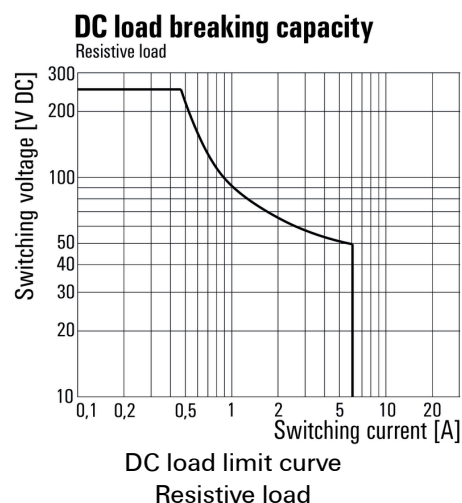
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Drawings

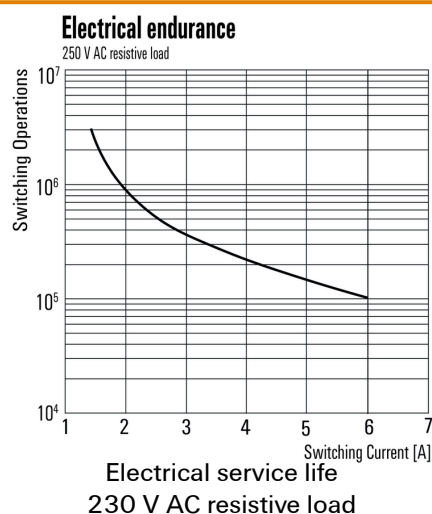
Wiring diagram



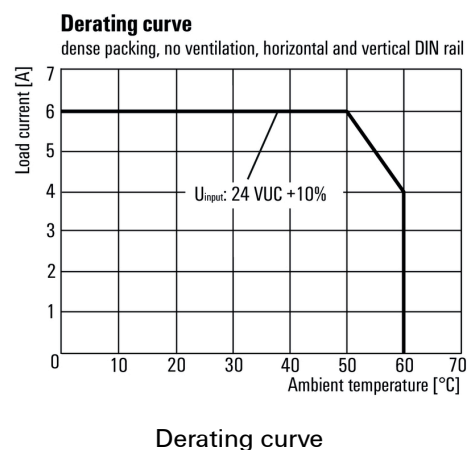
Graph



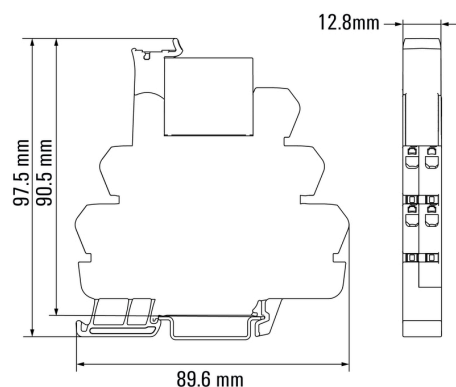
Graph



Graph



Dimensional drawing



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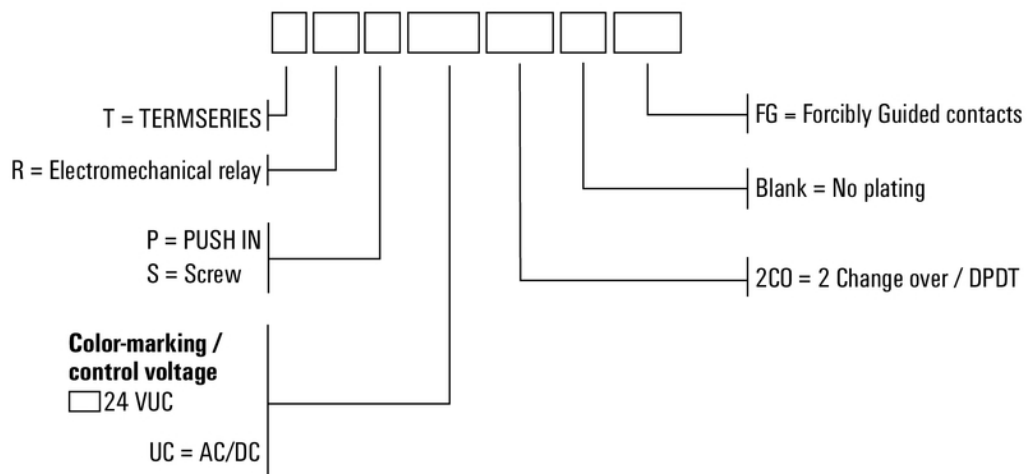
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Drawings

Miscellaneous

Type code TERMSERIES electromechanical relay versions



Type codes