TERMSERIES
TRS 24VDC 1CO C1D2

Weidmüller Interface GmbH & Co. KG
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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	TRS 24VDC 1CO C1D2
Order No.	1984570000
Version	TERMSERIES, Relay module, No. of contacts: 1 CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	4050118375251
Qty.	10 pc(s).

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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	30.82 g		

Temperatures

Humidity	5–95% rel. humidity, T_u = 40°C, no 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		

Input

Rated control voltage	24 V DC ± 20 %	Rated current DC	11.5 mA
Power rating	280 mW	Pull-in/drop-out voltage, typ.	16 V / 3 V DC
Pull-in/drop-out current, typ.	7.5 mA / 1 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		

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Continuous current	6 A
Inrush current	20 A / 20 ms	AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	144 W @ 24 V	Switch-on delay	≤ 6 ms
Switch-off delay	≤ 16 ms	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Max. switching frequency at rated load	0.1 Hz		

Contact data

Contact type	1 CO contact (AgNi)	Mechanical service life	5 x 10^6 switching cycles

General data

Version	cULus C1D2	Mounting rail	TS 35
Test button	No	Mechanical switch position indicator	No
UL 94 flammability rating	V-0		

Insulation coordination

Rated voltage	300 V	Surge voltage category	III
Pollution severity	2	Protection degree	IP20
Dielectric strength input – output	4 kV_{eff} / 1 min.	Creepage and clearance distance input – output	≥ 5.5 mm
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. (cULusEX)	E324123

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Technical data

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 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.	0.25 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm²
Twin wire-end ferrules, min.	0.5 mm²	Twin wire-end ferrules, max.	1 mm²
Blade size	size PH0	Gauge to IEC 60947-1	A1, B1

Rated data UL

Ambient temperature (operational), max.	60 °C	Temperature class	T5
Connection cross-section AWG, min.	AWG 26	Connection cross-section AWG, max.	AWG 14
Type of conductor	rigid copper conductor, flexible copper conductor	Tightening torque, max.	0.4 Nm
Pollution severity level	2		

Classifications

ETIM 5.0	EC001437	ETIM 6.0	EC001437
eClass 6.2	27-37-16-01	eClass 7.1	27-37-16-01
eClass 8.1	27-37-16-01	eClass 9.0	27-37-16-01
eClass 9.1	27-37-16-01		

Approvals

Approvals	LISTED FOR HAZ.LOC. C1D2
ROHS	Conform

Downloads

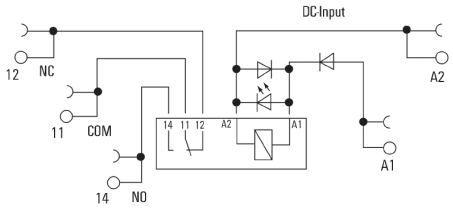
Approval/Certificate/Document of Conformity	DE_PA5600_160229_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	Operating Instructions

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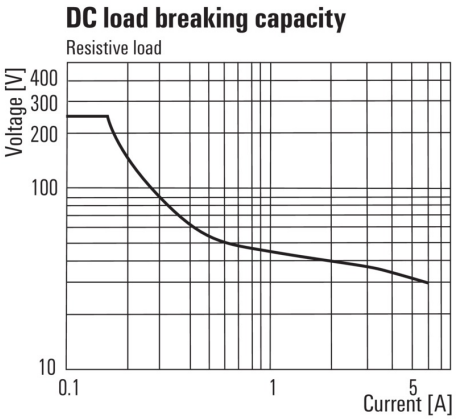
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Drawings

Wiring diagram

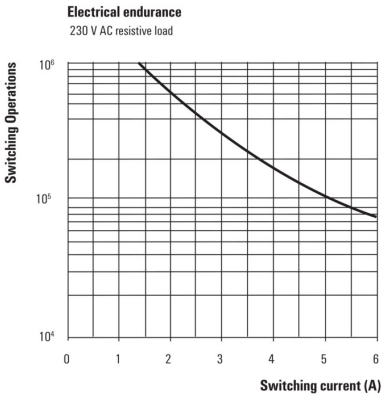


Graph



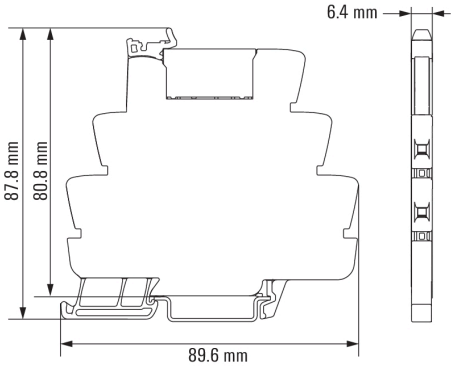
DC load limit curve
Resistive load

Graph



Electrical service life230 V AC resistive load
230 V AC resistive load

Dimensional drawing

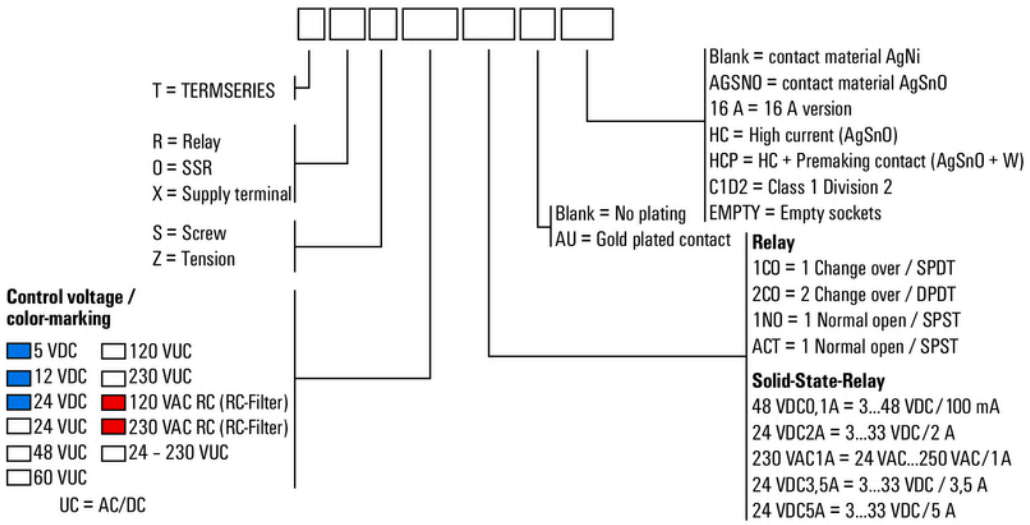


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Drawings

Miscellaneous



Type codes