

TERMSERIES
TRZ 120VUC 2CO AU

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
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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	TRZ 120VUC 2CO AU
Order No.	1123900000
Version	TERMSERIES, Relays, No. of contacts: 2 CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection
GTIN (EAN)	4032248905539
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	12.8 mm	Width (inches)	0.504 inch
Height	90.5 mm	Height (inches)	3.563 inch
Depth	87.8 mm	Depth (inches)	3.457 inch
Net weight	57.3 g		

Temperatures

Humidity	5-95% relative humidity, T _u = 40°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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Ambient temperature (operational), max. 60 °C	Output current derating (ohmic)	6 A @ 60 °C, 8 A @ 50 °C
Connection cross-section AWG, min. AWG 26	Connection cross-section AWG, max.	AWG 14
Type of conductor	Pollution severity level	2
rigid copper conductor, flexible copper conductor		

Input

Rated control voltage	120 V UC ± 10 %	Rated current AC	3.5 mA
Rated current DC	3.5 mA	Power rating	420 mVA / 420 mW
Pull-in/drop-out voltage, typ.	83 V / 28 V AC 90 V / 22 V DC	Pull-in/drop-out current, typ.	2.5 mA / 0.7 mA AC 2.6 mA / 0.58 mA DC
Status indicator	Green LED	Protective circuit	Rectifier
Coil voltage of the replacement relay deviating from the rated control voltage	Yes	Coil voltage of the replacement relay	110 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	< 11 ms
Switch-off delay	≤ 9 ms	Min. switching power	1 mA @ 1 V
Max. switching frequency at rated load	0.1 Hz		

Contact data

Contact type	2 CO contact (AgNi 5µm Au)	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

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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	Tension-clamp connection	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.	0.14 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.	0.14 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	0.6 x 3.5 mm
Gauge to IEC 60947-1	A1, B1		

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



ROHS

Conform

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Technical data

Downloads

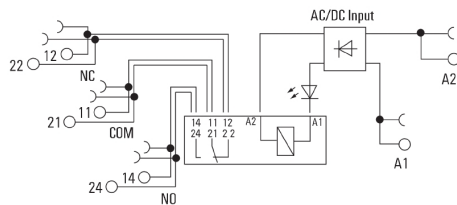
Approval/Certificate/Document of Conformity	DE_PA5600_160229_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	Operating Instructions

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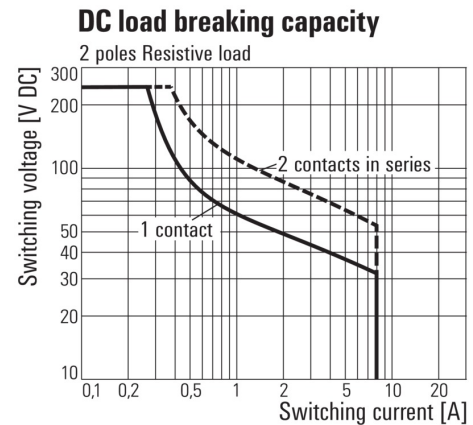
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Drawings

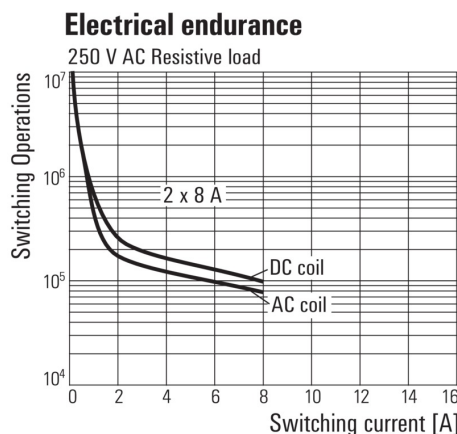
Wiring diagram



Graph

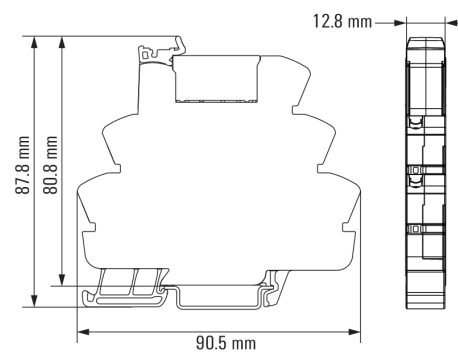


Graph



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

Dimensional drawing



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Drawings

Miscellaneous



Type codes