TERMSERIES
TRS 24-230VUC 1CO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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www.weidmueller.com



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 24-230VUC 1CO
Order No.	1122850000
Version	TERMSERIES, Relay module, No. of contacts: 1 CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	4032248905232
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	38 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...230 V UC ± 10 %	Rated current AC	4 mA @ 230 V AC ±10 %, 28 mA @ 24 V AC ±10 %
Rated current DC	22 mA @ 24 V DC ±10 %	Power rating	530 mW @ 24 V DC, 930 mVA @ 230 V AC
Pull-in/drop-out voltage, typ.	13 V / 7 V AC 13 V / 5 V DC	Pull-in/drop-out current, typ.	28.5 mA / 11 mA AC 23 mA / 6.5 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	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	≤ 30 ms
Switch-off delay	< 140 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

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)		

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Technical data

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	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.	40 °C	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		

Product information

Descriptive text ordering data	Spare relay Type: RSS113024 Orderno.: 4060120000
Descriptive text technical data	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page.

Approvals

Approvals	
ROHS	Conform

Creation date April 13, 2018 10:10:10 PM CEST

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Technical data

Downloads

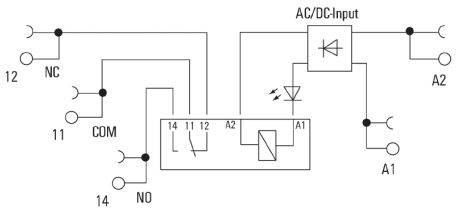
Approval/Certificate/Document of Conformity	DE_PA5600_160229_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	Operating Instructions

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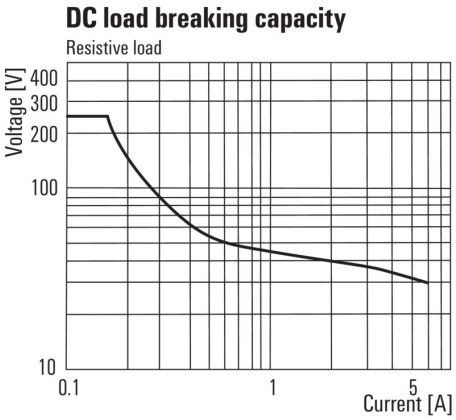
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Drawings

Wiring diagram

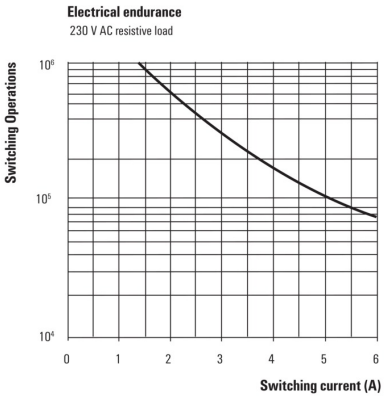


Graph



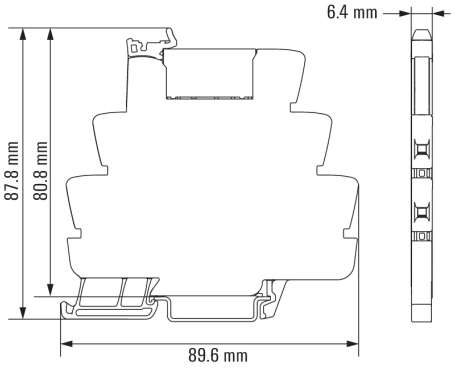
DC load limit curve
Resistive load

Graph



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

Dimensional drawing

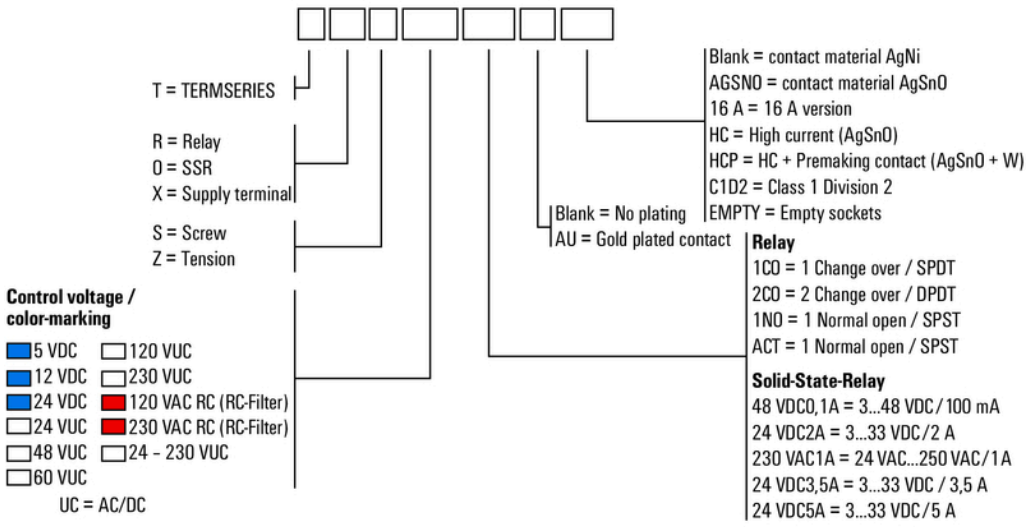


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Drawings

Miscellaneous



Type codes

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

WeidmÃ¼ller:

1804580000 1906650000 1950200000 2535780000 9456650000 1031470000 1622940000 1784180000
8690200000 9037380000 0303620000 1779950000 2642470000 1121990000 1649300000 1786450000
1127570000 1607520000 1608830000 1760040000 1221360000 1289470000 1608570000 1609820000
1818090500 024892 SAKS3 1124150000 1890260000 8951460000 1013450000