

TOP 230VAC RC 230VAC1A**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

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Product image

Similar to illustration

- 1 NO contact (Triac (zero-cross switch))
- 6.4 mm wide
- 1 A AC output current
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 12 V DC to 230 V UC with coloured marking: AC: red, DC: blue, UC: white

General ordering data

Version	TERMSERIES, Solid-state relay, Rated control voltage: 230 V AC +5 % / -10 % , Rated switching voltage: 24...240 V AC, Continuous current: 1 A, PUSH IN
Order No.	2618430000
Type	TOP 230VAC RC 230VAC1A
GTIN (EAN)	4050118670400
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	87.8 mm	Depth (inches)	3.457 inch
Height	89.4 mm	Height (inches)	3.52 inch
Width	6.4 mm	Width (inches)	0.252 inch
Net weight	29 g		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-20 °C...60 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation		

Probability of failure

MTTF	677 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9
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Rated data UL

Ambient temperature (operational), max.	60 °C	Output current derating (ohmic)	1 A @ 25 °C, 0.3 A @ 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

Rated control voltage	230 V AC +5 % / -10 %	Nominal control current	8.3 mA AC (±5 %)
Power rating	2.1 VA	Pull-in/drop-out voltage, typ.	142 V / 90 V AC
Status indicator	Green LED	Protective circuit	Rectifier, RC element
RC filter	94 Ω / 100 nF	Coil voltage of the replacement relay deviating from the rated control voltage	Yes
Coil voltage of the replacement relay	60 V DC		

Load side

Rated switching voltage	24...240 V AC	Continuous current	1 A
Rated switching current	1 A	Inrush current	15 A / 10 ms
Switch-on delay	< 20 ms	Switch-off delay	< 20 ms
Voltage drop at max. load	≤ 1.6 V	Leakage current	< 1.5 mA
Min. switching current	20 mA	Short-circuit-proof	No
Protective circuit, load side	RC element	Contact type	1 NO contact (Triac (zero-cross switch))
Output voltage frequency range	50 / 60 Hz	max. switching frequency (AC control voltage)	3 Hz

General data

Rail	TS 35
Test button available	No
Colour	black

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Technical data

UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0 info@weidmueller.com
	Component	Retaining clip
	UL94 flammability rating	V-0 www.weidmueller.com
	Component	Pusher
	UL94 flammability rating	V-0

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 5.5 mm
Dielectric strength for control side - load side	2.5 kV _{eff}	Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Certificate No. (DNVGL)	TAA00001E5	Certificate no. (cULus)	E141197
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Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	9 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.	0.14 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	0.4 x 2.0 mm

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ECLASS 9.0	27-37-16-04
ECLASS 9.1	27-37-16-04	ECLASS 10.0	27-37-16-04
ECLASS 11.0	27-37-16-04	ECLASS 12.0	27-37-16-04

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Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

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

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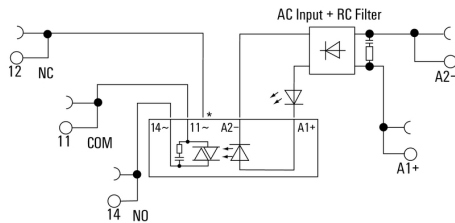
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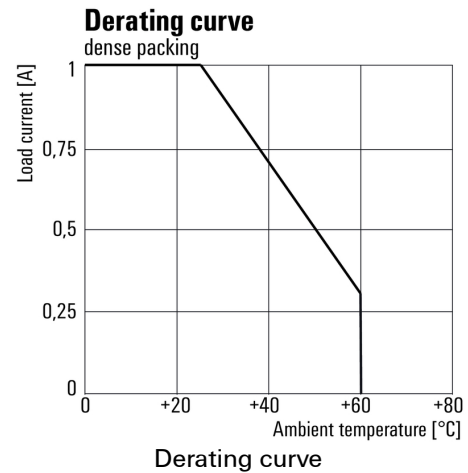
Drawings

Wiring diagram

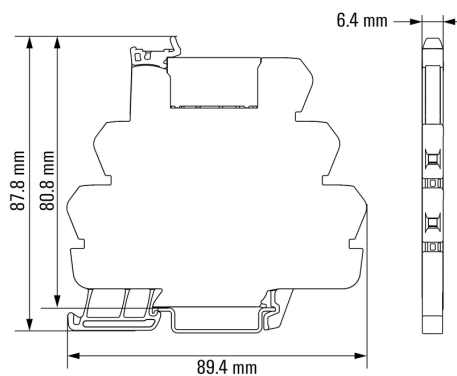


*Contact is assembled in socket but not used with solid-state relays

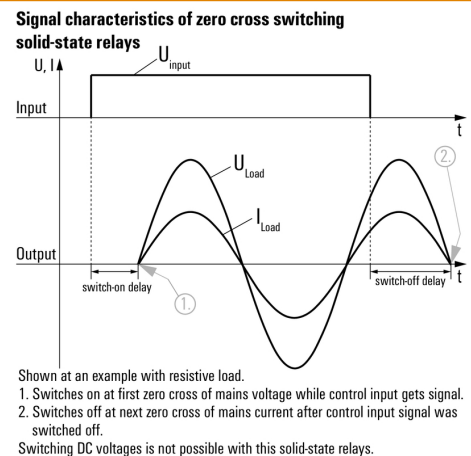
Graph



Dimensional drawing



Graph



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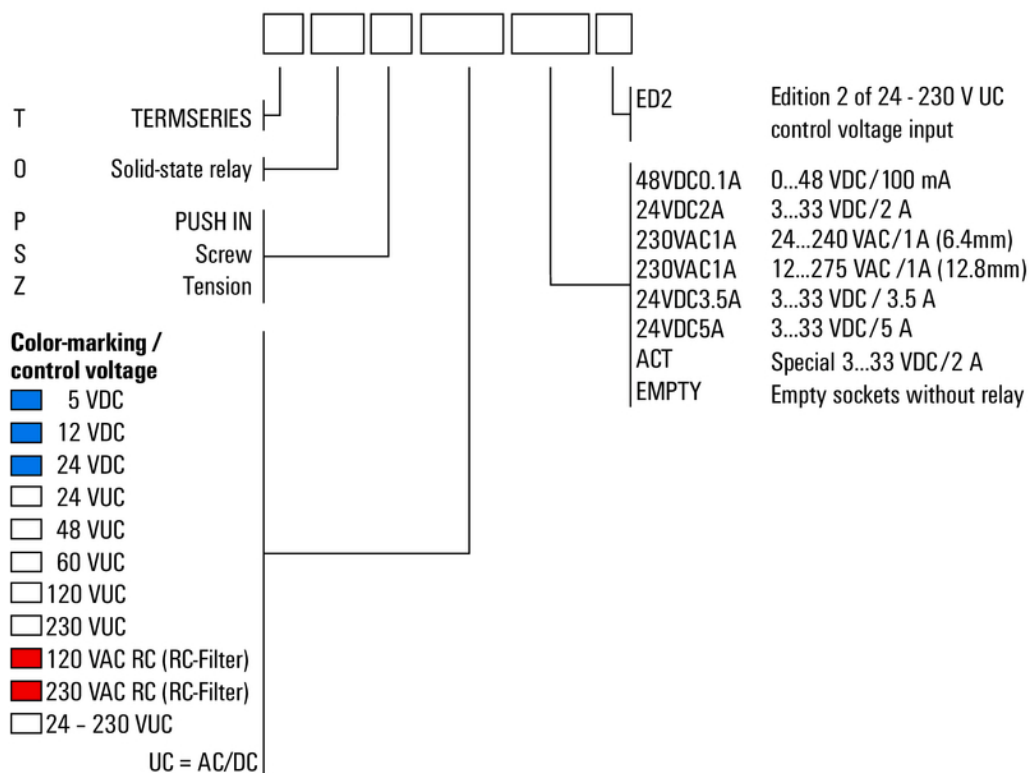
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Drawings

Miscellaneous

Type code TERMSERIES solid-state relay versions



Type codes

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Catalogue status 26.08.2022 / We reserve the right to make technical changes.