

**TERMOPTO
TOP 230VAC/48VDC 0.5A RC**

Weidmüller Interface GmbH & Co. KG
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TERMOPTO solid-state relay, 5 to 48 V DC 0.5 A output version,

with AC or DC input, available in different versions:

- With PUSH IN connection
- In 6.1 mm width
- With various input protective circuits (free-wheel diode, varistor, RC filter)
- Pluggable cross-connections
- Enclosed design

General ordering data

Type	TOP 230VAC/48VDC 0.5A RC
Order No.	1189260000
Version	TERMOPTO, Solid-state relay, Rated control voltage: 230 V AC +10 %/ -15 % , Rated switching voltage: 5...48 V DC, Rated switching current: 500 mA, PUSH IN spring connection
GTIN (EAN)	4032248100071
Qty.	10 pc(s).

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Technische Daten

Dimensions and weights

Width	6.1 mm	Height	79.5 mm
Depth	55 mm	Net weight	19.7 g

Temperatures

Humidity	5–95% rel. humidity, $T_u = 40^\circ\text{C}$, no condensation	Operating temperature	-20 °C...+60 °C
Storage temperature	-40 °C...+80 °C		

Probability of failure

MTTF	2,500 Years
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control side

Cut-in dropout voltage	207 V / 69 V AC	Rated control voltage	230 V AC +10 %/ -15 %
Nominal control current	6.4 mA AC	Power rating	≤ 1.5 VA
Input frequency	< 10 Hz	Protective circuit, control side	RC element
Status display on control side	Green LED		

Load side

Solid-state type	Transistor	Rated switching voltage	5...48 V DC
Continuous current	500 mA	Rated switching current	500 mA
Switch-on delay	< 12 ms	Switch-off delay	< 14 ms
Load category	DC1	Leakage current	< 10 µA
Protective circuit, load side	Diode	Voltage drop at max. load	< 1 V
Load side status indicator	No	Short-circuit-proof	No

General data

Solid-state type	Transistor	No. of poles	1
Wire connection method	PUSH IN spring connection	Humidity	5–95% rel. humidity, $T_u = 40^\circ\text{C}$, no condensation
UL 94 flammability rating	V-0	Standards	DIN EN 50178, IEC 62314, UL508
Wire cross-section, solid, max.	1.5 mm ²	Wire connection cross section, finely stranded, max.	1.5 mm ²

Insulation coordination

Rated voltage	300 V	Clearance and creepage distances for control side - load side	> 3 mm
Dielectric strength for control side - load side	1.2 kV _{eff} / 1 min.	Impulse withstand voltage	4 kV (1.2/50 µs)
Pollution severity	2	Surge voltage category	III

Further details of approvals

Standards	DIN EN 50178, IEC 62314, UL508
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Connection data

Clamping range, rated connection	1.5 mm ²	Clamping range, rated connection, max.	2.5 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²
Stripping length, rated connection	10 mm	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection method	PUSH IN spring connection	Wire cross-section, finely stranded, max. (AWG)	AWG 14
Wire cross-section, finely stranded, min. (AWG)	AWG 20	Wire cross-section, solid, max.	1.5 mm ²
Wire cross-section, solid, min.	0.5 mm ²		

Classifications

ETIM 3.0	EC001504	eClass 5.1	27-27-09-90
eClass 6.2	27-26-15-03	eClass 7.1	27-26-15-03

Product information

Descriptive text technical data Accessories and dimensioned drawings: refer to the TERMOPTO Accessories page.

Approvals

Approvals



ROHS Conform

Downloads

Declaration of Conformity [K305_02_11.pdf](#)

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Zeichnungen**Electric symbol****120 V...230 V AC**