

## TERMOPTO TOS 24VDC/48VDC 0,5A

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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 screw 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	TOS 24VDC/48VDC 0,5A
Order No.	<a href="#">8950920000</a>
Version	TERMOPTO, solid-state relais, Rated control voltage: 24 V DC $\pm 20\%$ , Rated switching voltage: 5...48 V DC, Rated switching current: 500 mA, Screw connection
GTIN (EAN)	4032248742288
Qty.	10 pc(s).

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**Technical data**
**Dimensions and weights**

Width	6.1 mm	Width (inches)	0.24 inch
Height	74.4 mm	Height (inches)	2.929 inch
Depth	55 mm	Depth (inches)	2.165 inch
Net weight	20.9 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**

Rated control voltage	24 V DC $\pm 20\%$	Nominal control current	7 mA DC
Cut-in / dropout voltage	19.2 V / 6 V DC	Protective circuit, control side	Varistor, rev. polarity protection
Status display on control side	Green LED		

**Load side**

Rated switching voltage	5...48 V DC	Continuous current	500 mA
Rated switching current	500 mA	Switch-on delay	< 20 $\mu\text{s}$
Switch-off delay	< 200 $\mu\text{s}$	Load category	DC1
Leakage current	< 10 $\mu\text{A}$	Protective circuit, load side	Integrated free-wheel diode
Voltage drop at max. load	< 1 V	Load side status indicator	No
Short-circuit-proof	No	max. switching frequency (DC control voltage)	200 Hz
Solid-state type	Transistor		

**General data**

Solid-state type	Transistor	No. of poles	1
Wire connection method	Screw 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.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>

**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 <sub>eff</sub> / 1 min.	Impulse withstand voltage	4 kV (1.2/50 $\mu\text{s}$ )
Pollution severity	2	Surge voltage category	III

**Further details of approvals / standards**

Standards	DIN EN 50178, IEC 62314, UL508	Certificate no. (cULus)	E223474
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Creation date December 2, 2015 9:46:06 PM CET

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**Technical data****Connection data**

Wire connection method	Screw connection	Stripping length, rated connection	9 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
Clamping range, rated connection	2.5 mm <sup>2</sup>	Clamping range, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, max.	2.5 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Wire cross-section, finely stranded, min. (AWG)	AWG 20
Wire cross-section, finely stranded, max. (AWG)	AWG 12	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm

**Classifications**

ETIM 3.0	EC001504	ETIM 4.0	EC001504
ETIM 5.0	EC001504	ETIM 6.0	EC001504
eClass 5.1	27-27-09-90	eClass 6.2	27-27-09-90
eClass 7.1	27-27-09-90	eClass 8.1	27-27-09-90
eClass 9.0	27-27-09-90		

**Product information**

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

**Approvals**

Approvals



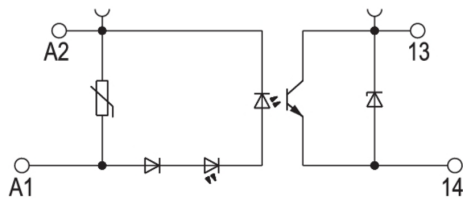
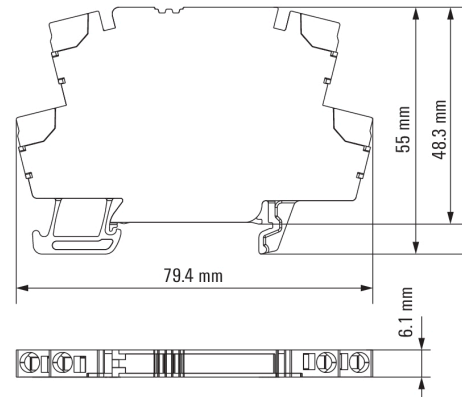
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**Downloads**

Declaration of Conformity      [K305\\_02\\_11.pdf](#)  
 EPLAN      [8950920000.ema](#)  
[3-D model](#)

**Data sheet****TERMOPTO  
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**Drawings****Electric symbol****Dimensioned drawing**

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