



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TERMOPTO TOS 120VAC/48VDC 0.5A RC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



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

Order No.	1180290000
Type	TOS 120VAC/48VDC 0.5A RC
Version	TERMOPTO, Solid-state relay, Rated control voltage: 120 V AC $\pm 20\%$, Rated switching voltage: 5...48 V DC, Rated switching current: 500 mA, Screw connection
GTIN (EAN)	4032248100057
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	6.1 mm	Height	74.5 mm
Depth	55 mm	Net weight	20.6 g

Temperatures

Operating temperature	-20 °C...+60 °C	Storage temperature	-40 °C...+80 °C
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Probability of failure

MTTF	2,500 Years
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Connection data

Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, min.	0.5 mm ²
Clamping range, rated connection, max.	4 mm ²	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Stripping length, rated connection	9 mm

Control side

Rated control voltage	120 V AC ±20 %	Nominal control current	6.4 mA AC
Power rating	≤ 0.61 VA	Input frequency	< 10 Hz
Cut-in (switch-on) voltage	≥ 102 V AC	Dropout voltage	≤ 48 V AC
Protective circuit, control side	RC element	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	< 12.6 ms
Switch-off delay	< 20.8 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
Conductor connection system	Screw connection	Humidity	5...95 % rel. humidity T _u = 40 °C, no condensation
UL 94 flammability rating		V-0	Standards

Insulation coordination

Rated voltage	300 V	Clearance and creepage distances for control side - load side	> 3 mm
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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Technical data**Classifications**

ETIM 3.0	EC001504	eClass 5.1	27-27-09-90
eClass 6.0	27-27-09-90	eClass 7.0	27-27-09-90

Approvals

Approvals

**Downloads**Declaration of Conformity [K305_02_11.pdf](#)

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