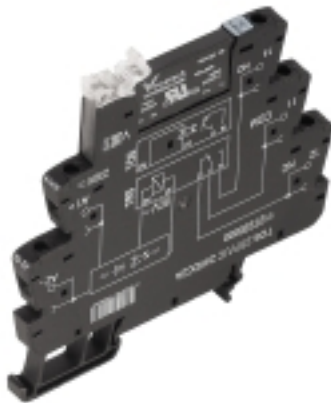


TERMSERIES

TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com



TERMSERIES complete solid-state relay modules 3 to 48 V DC 0.1 A output versions consisting of a solid-state relay and a base with AC/DC/UC input; available in different designs:

- With screw connection
- In 6.4 mm width
- Optionally with multiple-voltage input: 24 to 230 V UC
- With various protective circuits in the input (free-wheel diode, RC element)
- Illuminated ejection lever

General ordering data

Type	TOS 120VUC 48VDC0,1A
Order No.	1126980000
Version	TERMSERIES, solid-state relays, 1 NO contact (Bipolar transistor), Rated control voltage: 120 V UC $\pm 10\%$, Rated switching voltage: 0...48 V DC, Continuous current: 100 mA, Screw connection
GTIN (EAN)	4032248908608
Qty.	10 pc(s).

TERMSERIES
TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

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	32.4 g		

Temperatures

Humidity	5–95% rel. humidity, $T_u = 40^\circ\text{C}$, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-40 °C	Operating temperature	-20 °C...60 °C
Storage temperature	-40 °C...70 °C		

Probability of failure

MTTF	1,200 Years
------	-------------

Control side

Rated control voltage	120 V UC $\pm 10\%$	Nominal control current	5 mA AC ($\pm 30\%$), 3 mA DC ($\pm 30\%$)
Power rating	0.48 VA	Cut-in / dropout voltage	82 V / 65 V AC 86 V / 74 V 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	60 V DC

Load side

Rated switching voltage	0...48 V DC	Continuous current	100 mA
Rated switching current	100 mA	Switch-on delay	< 6.5 ms
Switch-off delay	< 10 ms	Voltage drop at max. load	$\leq 1\text{ V}$
Leakage current	< 10 μA	Min. switching current	500 μA
Short-circuit-proof	No	Protective circuit, load side	Free-wheel diode
max. switching frequency (AC control voltage)	3 Hz	max. switching frequency (DC control voltage)	3 Hz

Contact data

Contact type	1 NO contact (Bipolar transistor)
--------------	-----------------------------------

General data

Mounting rail	TS 35	Colour	Black
UL 94 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	$\geq 5.5\text{ mm}$
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

TERMSERIES
TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data
Further details of approvals / standards

Standards	DIN EN 50178	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 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 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.	0.25 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	1 mm ²
Blade size	size PHO	Gauge to IEC 60947-1	A1, B1

Rated data UL

Ambient temperature (operational), max. 60 °C	Connection cross-section AWG, min.	AWG 26
Connection cross-section AWG, max.	Type of conductor	rigid copper conductor, flexible copper conductor
AWG 14	Pollution severity level	2
Tightening torque, max.	0.4 Nm	

Classifications

ETIM 4.0	EC001504	ETIM 5.0	EC001504
ETIM 6.0	EC001504	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	eClass 9.1	27-37-16-04

Product information

Descriptive text ordering data	Spare solid-state relay Type: SSS 60 V/24 V 0.1A DC Orderno.: 4061230000
Descriptive text technical data	Accessories and dimensional drawings: refer to the TERMSERIES Accessories page.

Approvals

Approvals



ROHS Conform

TERMSERIES TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Downloads

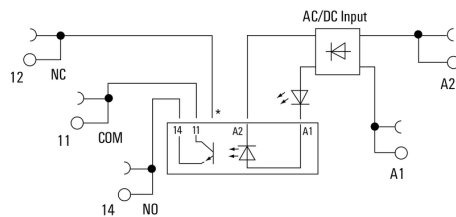
Approval/Certificate/Document of Conformity	DE_PA_5600_160229_002.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Operating Instructions

TERMSERIES TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

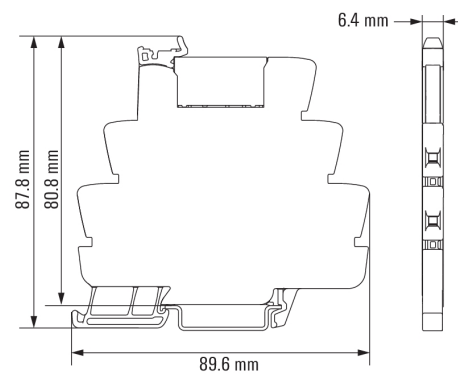
Drawings

Wiring diagram



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

Dimensional drawing



TERMSERIES TOS 120VUC 48VDC0,1A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

Miscellaneous



Type codes