

## MICROOPTO MOS 24VDC/12-300VDC 1A

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The MICROOPTO 300 V DC solid-state relay has been developed as a switching amplifier for high inductive loads up to 300 V DC and 1 A in motor brakes and contactors.

A power boost in the load circuit compensates transient overloads (20 A for 20 ms / 5 A for 1 s) such as start-up or shut-down spikes. Additional protective circuits counter higher overloads.

### General ordering data

Type	MOS 24VDC/12-300VDC 1A
Order No.	<a href="#">8937830000</a>
Version	MICROOPTO, solid-state relais, Rated control voltage: 24 V DC $\pm$ 20 % , Rated switching voltage: 12...300 V DC, Rated switching current: 1.3 A, Screw connection
GTIN (EAN)	4032248716050
Qty.	1 pc(s).

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

Width	6.1 mm	Width (inches)	0.24 inch
Height	88.1 mm	Height (inches)	3.468 inch
Depth	97.8 mm	Depth (inches)	3.85 inch
Net weight	37 g		

**Temperatures**

Humidity	5–95% rel. humidity, $T_u = 55^\circ\text{C}$ , no condensation	Operating temperature	-25 °C...60 °C
Storage temperature	-40 °C...80 °C		

**Probability of failure**

MTTF	467 Years
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**control side**

Rated control voltage	24 V DC $\pm 20\%$	Cut-in / dropout voltage	18.8 V / 14.7 V DC
Status display on control side	Green LED	Protective circuit, control side	Varistor, rev. polarity protection

**Load side**

Solid-state type	POWER MOS-FET	Rated switching voltage	12...300 V DC
Continuous current	1 A	Rated switching current	1.3 A
Load category	LC A	Pulse load, max. current	27 A (10 ms)
Switch-on delay	< 18 $\mu\text{s}$	Switch-off delay	< 1 ms
Voltage drop at max. load	$\leq 0.4$ V	Leakage current	< 1 $\mu\text{A}$
Short-circuit-proof	No	Protective circuit, load side	Varistor, integrated free-wheel diode
max. switching frequency (DC control voltage)	60 Hz		

**General data**

UL 94 flammability rating	V-0
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**Insulation coordination**

Rated voltage	300 V	Pollution severity	2
Surge voltage category	II	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.	Dielectric strength to mounting rail	1.2 kV <sub>eff</sub> / 1 min.
Impulse withstand voltage	2.5 kV (1.2/50 $\mu\text{s}$ )	Protection degree	IP20

**Further details of approvals / standards**

Standards	DIN EN 50178, GL 2003-VI-Abs. 9, IEC 62314, UL508	Certificate No. (GERMLLOYD)	54853-08
Certificate no. (cULus)	E141197		

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

Wire connection method	Screw connection	Stripping length, rated connection	7 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.	4 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	4 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>	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
UNSPSC	30-21-18-01	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
eClass 9.1	27-37-10-14		

**Product information**

Descriptive text accessories      Accessories and dimensioned drawings: refer to the MICROOPTO Accessories page.

**Approvals**

Approvals



ROHS      Conform

**Downloads**

Declaration of Conformity      [K302\\_11\\_08.pdf](#)  
[3-D model](#)

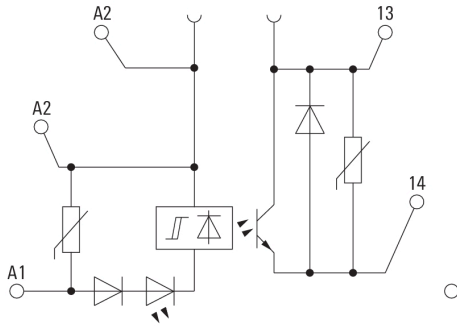
**Data sheet**

**MICROOPTO  
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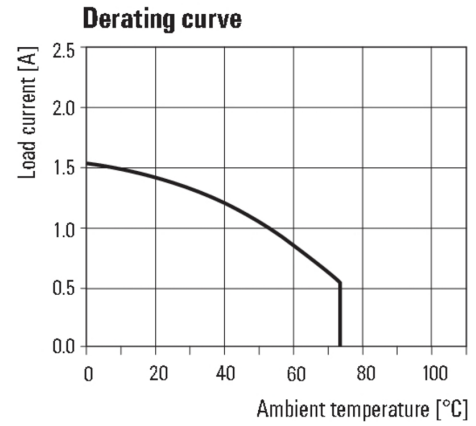
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**Drawings**

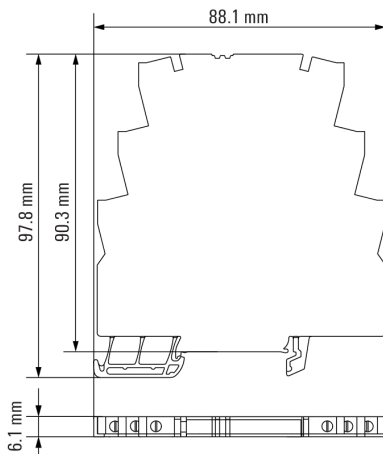
**Wiring diagram**



**Derating curve**



**Dimensioned drawing**



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