

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

Weidmüller Interface GmbH & Co. KG
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The solid-state relay MICROOPTO 300 V DC 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 making or breaking spikes. Additional protective circuits counter higher overloads.

General ordering data

Order No.	8937830000
Part designation	MOS 24VDC/12-300VDC 1A
Version	MICROOPTO, Solid-state relay, 12...300 V DC, 1.3 A, Screw connection
GTIN (EAN)	4032248716050
Qty.	1 pc(s).

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Technical data
Dimensions

Length	90 mm	Width	6.1 mm
Height	98 mm		

Temperature

Ambient temperature (operational)	Storage temperature	-40 °C...+80 °C
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Probability of failure

MTTF	467 Years
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Approvals

Approvals institutes	CULUS; GERMLLOYD; CE
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Control side

Dropout voltage	< 14.7 V	Input frequency	50 Hz
Power rating	0.36 W	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	24 V DC \pm 20 %	Status display on control side	Green LED
making voltage	> 18.8 V		

General data

Standards	EN 50178 GL 2003-VI-Abs. 9 IEC 62314 UL508	Humidity	5...95 % RH $T_u = 55$ °C, no condensation
Flammability class UL 94	V-0	Conductor connection system	Screw connection
Solid-state type	POWER MOS-FET		

Insulation coordination (EN 50 178)

Clearance and creepage distances for control/load side	> 3 mm	Overvoltage category	III
Pollution severity	2	Rated impulse withstand voltage	4 kV (1.2 / 50 μ s)
Rated voltage	300 V		

Load side

Continuous current	1 A	Leakage current	< 1 μ A
Load category	LC A	Protective circuit, load side	Varistor
Pulse loading, max. current	27 A (10 ms)	Rated switching current	1.3 A
Rated switching voltage	12...300 V DC	Short-circuit-proof	Powerboost 10 A / 20 ms, 5 A / 1 sec
Switch-off delay	< 0.1 ms	Switch-on delay	0.1 ms
Voltage drop at max. load	\leq 0.5 V		

Classifications

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

Datasheet

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Drawings

Electric symbol

