

MICROSERIES
MOS 24Vdc/ 230VAC 1A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

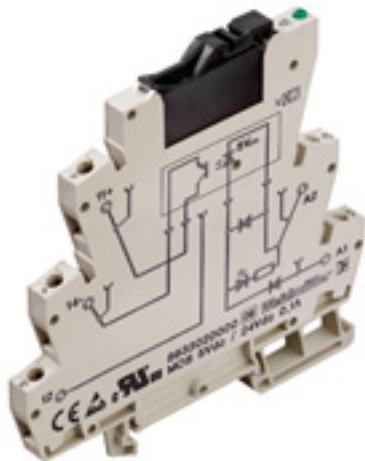
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Solid-state relays of the MICROSERIES are used for isolating and coupling digital signals.

They are characterised by the following features:

- 6.1 mm modular width
- Pluggable SSR
- Plug-in cross-connections at four potentials in input and output,
- innovative retention and ejection aid,
- LED operating indicator, reverse polarity protection diode, free-wheeling diode

General ordering data

Type	MOS 24Vdc/ 230VAC 1A
Order No.	8652010000
Version	MICROSERIES, Solid-state relay, Rated control voltage: 24 V DC $\pm 20\%$, Rated switching voltage: 24...250 V AC, Rated switching current: min. 20 mA / max. 1 A, Screw connection
GTIN (EAN)	4032248314348
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	6.1 mm	Height	93 mm
Depth	94 mm	Net weight	35.3 g

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...+50 °C
Storage temperature	-40 °C...+60 °C		

Probability of failure

MTTF	314 Years
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control side

Rated control voltage	24 V DC $\pm$ 20 %	Nominal control current	10.4 mA DC
Power rating	250 mW $\pm$ 15 %	Input frequency	45 – 60 Hz
Cut-in (switch-on) voltage	$\geq$ 17 V DC	Dropout voltage	$\leq$ 15.5 V DC
Protective circuit, control side	Reverse polarity protection, Integrated free-wheel diode	Status display on control side	Green LED

Load side

Inrush current	20 A / 10 ms (not repeatable)	Solid-state type	Triac (zero-cross switch)
Rated switching voltage	24...250 V AC	Continuous current	1 A
Rated switching current	min. 20 mA / max. 1 A	Switch-on delay	< 11 ms
Switch-off delay	< 11 ms	Leakage current	< 1.5 mA
Voltage drop at max. load	$\leq$ 1 V	Short-circuit-proof	No

General data

Solid-state type	Triac (zero-cross switch)	No. of poles	1
Wire connection method	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
Standards	DIN EN 50178, UL508		

Insulation coordination

Rated voltage	300 V	Clearance and creepage distances for control side - load side	$\geq$ 5.5 mm
Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min.	Dielectric strength to mounting rail	4 kV _{eff} / 1 min.
Impulse withstand voltage	4 kV (1.2/50 μ s)	Pollution severity	2
Surge voltage category	III		

Further details of approvals

Standards	DIN EN 50178, UL508
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Connection data

Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Wire connection method	Screw connection

Creation date October 21, 2013 9:45:41 PM CEST

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Technical data**Classifications**

ETIM 3.0	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		

Product information

Descriptive text technical data Cross-connections and markers - refer to MICROSERIES Accessories.

Approvals

Approvals



ROHS Conform

Downloads

EPLAN [8652010000.ema](#)
[3-D model](#)

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Drawings

Electric symbol

