

MICROSERIES

MRS 230Vac 1CO 5uAu

Weidmüller Interface GmbH & Co. KG
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Relays of the MICROSERIES are used for isolating and coupling digital signals.

They are characterised by the following features:

- modular width 6.1 mm
- Pluggable relay
- Pluggable cross-connection for four voltages in input and output circuits,
- innovative retention and ejection aid,
- LED operating indicator, reverse polarity protection diode, free-wheeling diode

General ordering data

Order No.	8596050000
Type	MRS 230Vac 1CO 5uAu
Version	MICROSERIES, Relays, No. of contacts: 1, CO contact, AgNi 5µm Au, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	403224825494 1
Qty.	10 pc(s).

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Technical data**Ratings**

Conductor connection system	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
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Dimensions and weights

Width	6.1 mm	Height	93 mm
Depth	94 mm	Net weight	37 g

Temperatures

Operating temperature	-25 °C...+55 °C	Storage temperature	-40 °C...+60 °C
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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		

Input

Rated control voltage	230 V AC ±10 %	Rated current AC	7.6 mA
Power rating	1.75 VA, 210 mW	Response / drop-out voltage AC coil	103 V / 49 V
Pull-in / drop-out current, AC coil	5 mA / 2.5 mA	Status indicator	Green LED

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Continuous current	6 A
making current	6 A	Max. switching power	1500 VA
Switch-on delay	< 13 ms	Switch-off delay	< 11 ms
Min. switching power	1 V / 1 mA	Max. switching frequency at rated load	0.1 Hz

Contact specifications

No. of contacts	1	Contact design	CO contact
Contact material	AgNi 5µm Au	Mechanical service life	20 x 10 ⁶ switching cycles

Insulation coordination

Rated voltage	300 V	Clearance and creepage distances for control side - load side	≥ 5.5 mm
Dielectric strength to mounting rail	4 kV _{eff} / 1 min.	Impulse withstand voltage	4 kV (1.2/50 µs)
Protection degree	IP 20	Pollution severity	2
Surge voltage category	III		

Other technical data

Version	Relay coupler	Status indicator	Green LED
Free-wheel diode	Yes	Bridge rectifier	Yes
Reverse polarity protection	Available		

Further details of approvals / standards

Standards	DIN EN 50178, UL508
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Technical data**Classifications**

ETIM 2.0	EC001437	ETIM 3.0	EC001437
UNSPSC	30-21-19-17	eClass 4.1	40-02-06-14
eClass 5.1	27-37-16-01	eClass 6.0	27-37-16-01
eClass 7.0	27-37-16-01		

Approvals

Approvals

**Downloads**

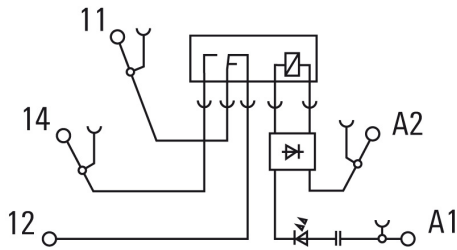
Declaration of Conformity [K205_09_09.pdf](#)
[3-D model](#)

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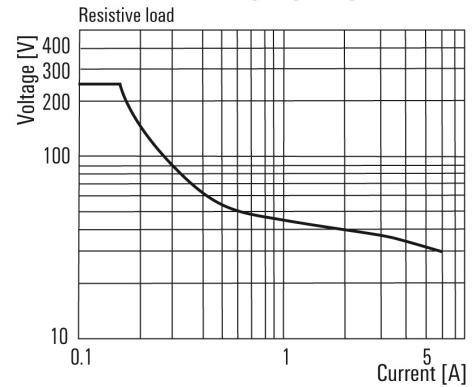
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Drawings

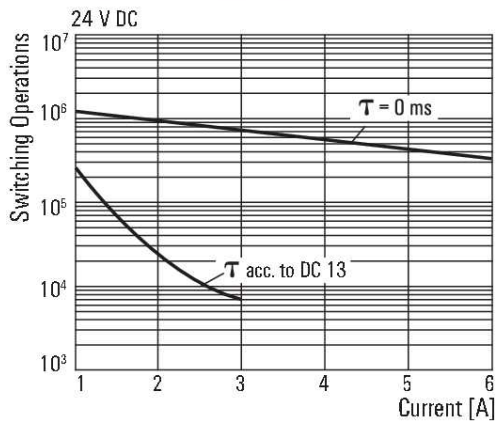
Electric symbol



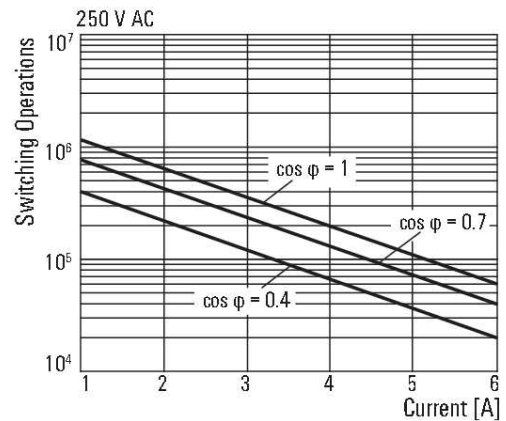
DC load breaking capacity



Electrical endurance



Electrical endurance



Derating curve

