

MICROSERIES

MRS 24Vdc 1CO 5uAu

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



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.	8596060000
Type	MRS 24Vdc 1CO 5uAu
Version	MICROSERIES, Relays, No. of contacts: 1, CO contact, AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	4032248254958
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	34.37 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	24 V DC ±20 %	Rated current DC	6.6 mA
Power rating	160 mW	Pull-in (sparkover) / drop-out voltage DC coil	16.9 V / 6.5 V
Pull-in / drop-out current, DC coil	4 mA / 1.2 mA	Status indicator	Green LED

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Max. switching voltage, DC making current	250 V / 6 A	Continuous current	6 A
Switch-on delay	6.6 ms	Max. switching power	1500 VA
Min. switching power	1 V / 1 mA	Switch-off delay	5.8 ms
		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	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**

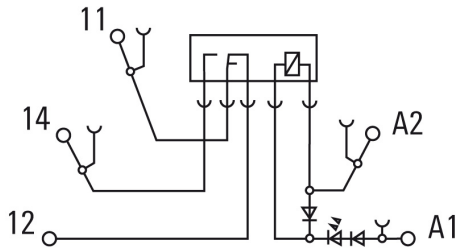
Declaration of Conformity [K205_09_09.pdf](#)
[3-D model](#)

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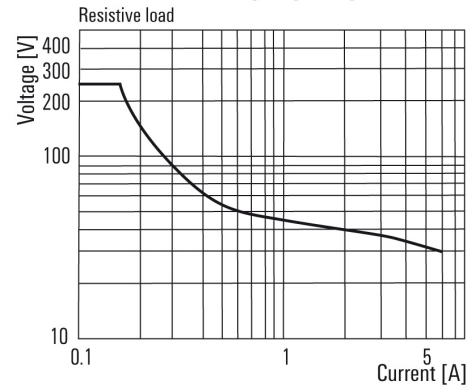
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Drawings

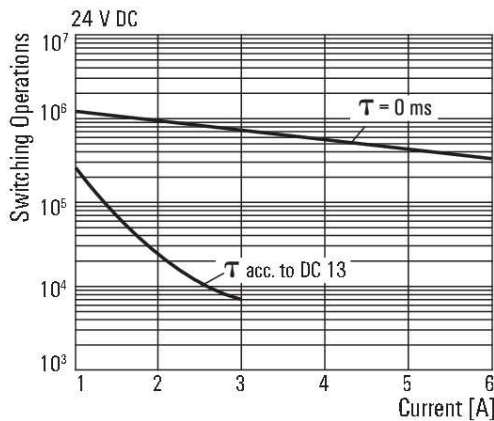
Electric symbol



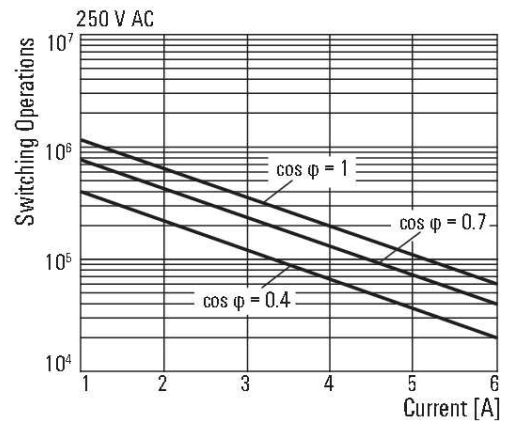
DC load breaking capacity



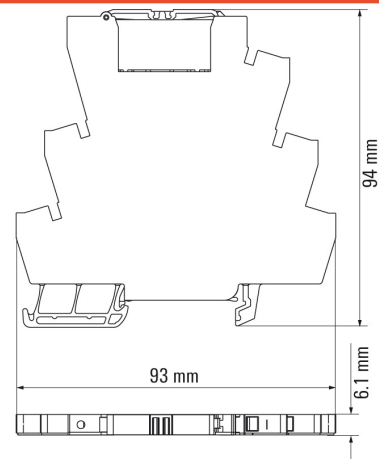
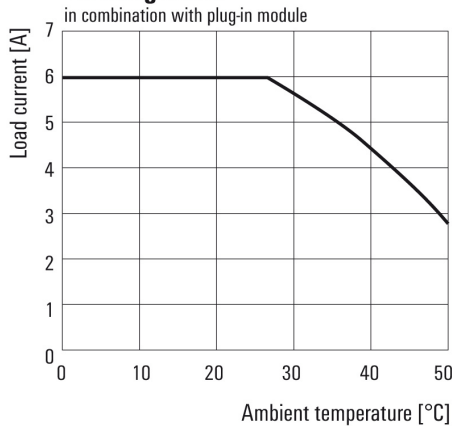
Electrical endurance



Electrical endurance



Derating curve



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