

MICROSERIES
MRS 24Vdc 1CO
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

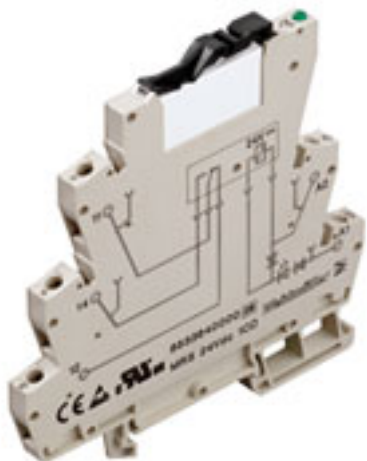
D-32758 Detmold

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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

Type	MRS 24Vdc 1CO
Order No.	8533640000
Version	MICROSERIES, Relays, No. of contacts: 1, CO contact, AgNi, Rated control voltage: 24 V DC ± 20 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	4032248169740
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	34.27 g

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...+55 °C
Storage temperature	-40 °C...+60 °C		

Input

Protective circuit	Integrated free-wheel diode, Reverse polarity protection	Rated control voltage	24 V DC $\pm$ 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	250 V	Continuous current	6 A
Inrush current	6 A	Max. switching power	1500 VA
Switch-on delay	6.6 ms	Switch-off delay	5.8 ms
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 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	Mechanical service life	20 x 10 ⁶ switching cycles

general data

Wire connection method	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
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Insulation coordination

Creepage and clearance distance input – output	≥ 5.5 mm	Rated voltage	300 V
Dielectric strength to mounting rail	4 kV _{eff} / 1 min.	Impulse withstand voltage	4 kV (1.2/50 μ s)
Protection degree	IP 20	Pollution severity	2
Surge voltage category	III		

Other technical data

Version	Relay coupler	Protective circuit	Integrated free-wheel diode, Reverse polarity protection
Status indicator	Green LED		

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Technical data
Further details of approvals / standards

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

Classifications

ETIM 3.0	EC001437	UNSPSC	30-21-19-17
eClass 5.1	27-37-16-01	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01		

Product information

Descriptive text technical data	Cross-connectors and markers - refer to MICROSERIES accessories
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Approvals

Approvals



ROHS	Conform
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Downloads

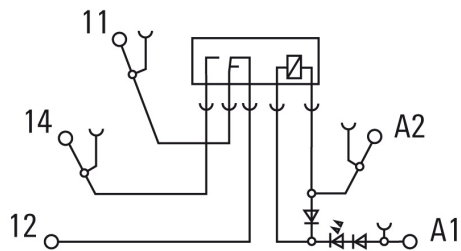
Declaration of Conformity	K205_09_09.pdf
	3-D model

MICROSERIES MRS 24Vdc 1CO

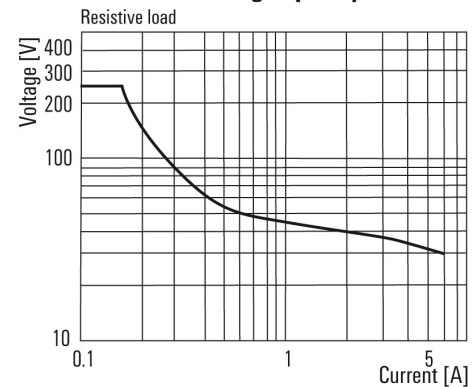
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Drawings

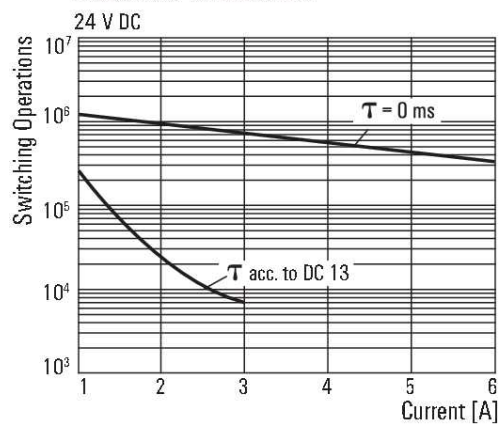
Electric symbol



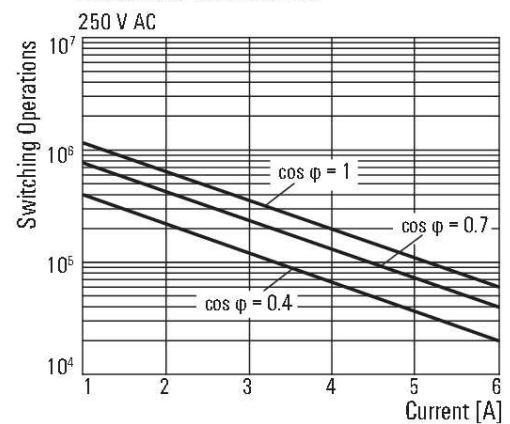
DC load breaking capacity



Electrical endurance



Electrical endurance



Derating curve

