MICROSERIES
MRS 120Vuc 1CO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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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 120Vuc 1CO
Order No.	8556030000
Version	MICROSERIES, Relays, No. of contacts: 1, CO contact, AgNi, Rated control voltage: 120 V UC +10 % / -15 %, Continuous current: 6 A, Screw connection
GTIN (EAN)	4032248195152
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	36.6 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	Rectifier	Rated control voltage	120 V UC +10 % / -15 %
Rated current AC	3.5 mA ±15 %	Rated current DC	3.5 mA ±15 %
Power rating	0.42 VA, 360 mW	Response drop-out voltage AC coil	60 V / 37 V
Pull-in (sparkover) drop-out voltage DC coil	71 V / 22 V	Pull-in drop-out current, AC coil	1.8 mA / 1.1 mA
Pull-in drop-out current, DC coil	1,8 mA / 0,5 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
Inrush current	6 A	Max. switching power	1500 VA
Switch-on delay	< 9 ms	Switch-off delay	≤ 9 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

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 µs)
Protection degree	IP 20	Pollution severity	2
Surge voltage category	III		

Other technical data

Version	Relay coupler	Protective circuit	Rectifier
Status indicator	Green LED		

Further details of approvals / standards

Standards	DIN EN 50178, UL508

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Technical data

Connection data

Clamping range, rated connection	2.5 mm²	Clamping range, rated connection, max.	4 mm²
Clamping range, rated connection, min.	0.5 mm²	Wire connection method	Screw connection

Classifications

ETIM 3.0	EC001437	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01		

Approvals

Approvals	
ROHS	Conform

Downloads

Declaration of Conformity	K205_09_09.pdf
3-D model	

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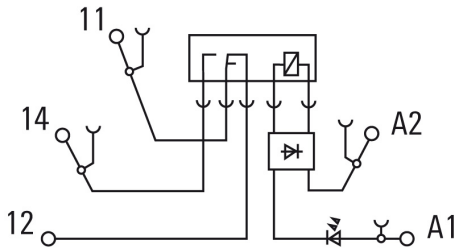
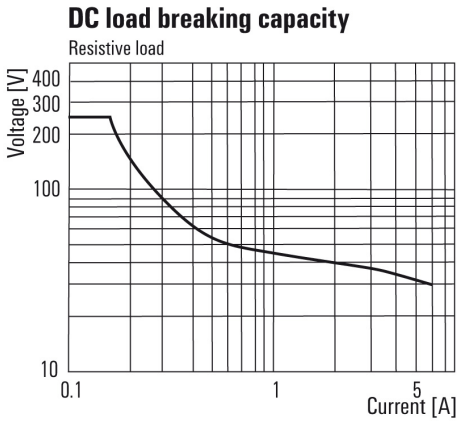
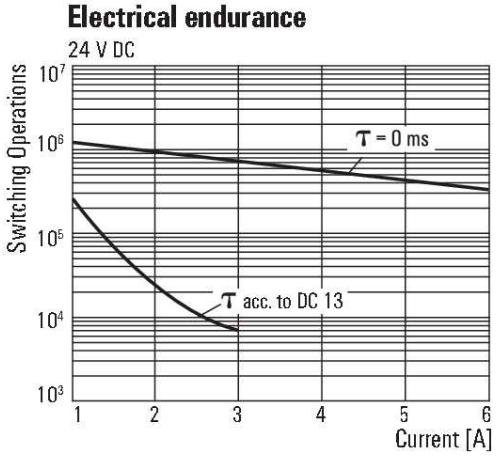
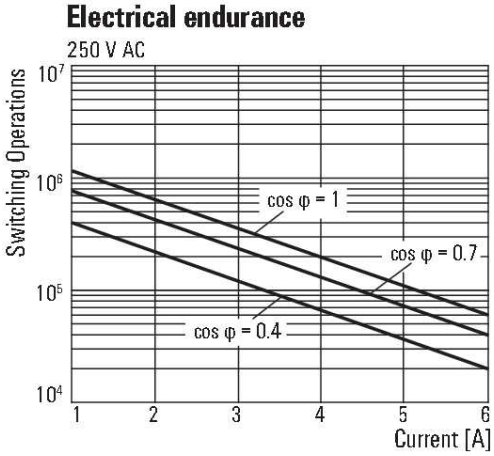
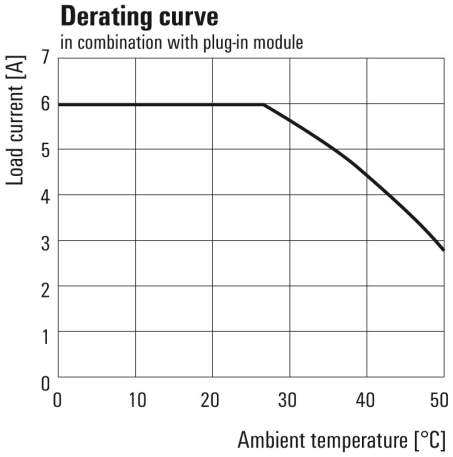
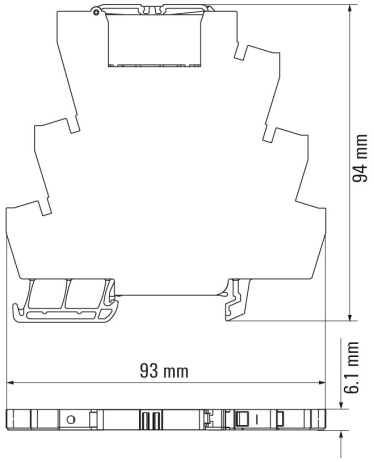
Drawings

Electric symbol