

MICROSERIES
MRS 120Vuc 1CO

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
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. | 8556030000 |
| Part designation | MRS 120Vuc 1CO |
| Version | MICROSERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 120 V UC +10 % / -15 %, Screw connection |
| GTIN (EAN) | 4032248195152 |
| Qty. | 10 pc(s). |

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Technical data

Dimensions

| | | | |
|--------|-------|-------|--------|
| Length | 93 mm | Width | 6.1 mm |
| Height | 92 mm | | |

Temperature

| | | | |
|-----------------------------------|-----------------|---------------------|-----------------|
| Ambient temperature (operational) | -25 °C...+50 °C | Storage temperature | -40 °C...+60 °C |
|-----------------------------------|-----------------|---------------------|-----------------|

Input

| | | | |
|-------------------------------------|-----------------|--|------------------------|
| Rated voltage | 300 V | Rated control voltage | 120 V UC +10 % / -15 % |
| Response / drop-out voltage AC coil | 71 V / 22 V | Pull-in (sparkover) / drop-out voltage DC coil | 71 V / 22 V |
| Rated current AC | 3.5 mA | Rated current DC | 3.5 mA |
| Pull-in / drop-out current, AC coil | 1.8 mA / 0.5 mA | Pull-in / drop-out current, DC coil | 1.8 mA / 0.5 mA |
| Power rating | 0.42 VA | Status indicator | Green LED |

Output

| | | | |
|----------------------------|--------|--|--------|
| Continuous current | 6 A | Max. switching frequency at rated load | 0.1 Hz |
| Switch-off delay | 7.5 ms | Switch-on delay | 9.3 ms |
| Switching voltage AC, max. | 250 V | | |

Contact data

| | | | |
|------------------|------------|-------------------------|---------------------------------------|
| Contact design | CO contact | No. of contacts | 1 |
| Contact material | AgSnO | Mechanical service life | 20 x 10 ⁶ switching cycles |

Rated data

| | | | |
|-----------------------------|------------------|----------|---|
| Conductor connection system | Screw connection | Humidity | 40°C / 93% rel. humidity, no condensation |
|-----------------------------|------------------|----------|---|

Insulation coordination (EN 50 178)

| | | | |
|--|----------|---|------------------|
| Clearance and creepage distances for control/load side | ≥ 5.5 mm | Impulse withstand voltage | 6 kV (1.2/50 µs) |
| Overvoltage category | III | Pollution severity | 2 |
| Protection class | IP 20 | Protective separation acc. to VDE 0106 part 101 | Yes |
| Rated voltage | 300 V | | |

Other technical data

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

Approvals

| | |
|----------------------|------------------------------------|
| Approvals institutes | CSA; CULUS; CURUS; GOSTME25; CE |
|----------------------|------------------------------------|

Classifications

| | |
|------------|-------------|
| eClass 6.0 | 27-37-16-01 |
|------------|-------------|

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Last update 27.09.2010 / We reserve the right to make technical changes.

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Technical data

Notes

Note, technical data

Cross-connectors and markers - refer to MICROSERIES accessories

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Drawings

Electric symbol

