

## MICROSERIES MRS 24Vdc ACT

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
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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.  | <a href="#">8660920000</a>  |
| Type       | MRS 24Vdc ACT   |
| Version    | MICROSERIES, Relays, No. of contacts: 1, NO contact, AgNi, Rated control voltage: 24 V DC $\pm$ 20 %, Continuous current: 6 A, Screw connection |
| GTIN (EAN) | 4032248326013   |
| Qty.       | 10 pc(s).   |

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**Technical data**
**Ratings**

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

**Dimensions and weights**

|       |        |            |        |
|-------|--------|------------|--------|
| Width | 6.1 mm | Height     | 93 mm  |
| Depth | 94 mm  | Net weight | 36.3 g |

**Temperatures**

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

**Connection data**

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Clamping range, rated connection       | 2.5 mm <sup>2</sup> | Clamping range, rated connection, min. | 0.5 mm <sup>2</sup> |
| Clamping range, rated connection, max. | 4 mm <sup>2</sup>   |  |                     |

**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                      | 100 mA / 5 V, 10 V / 10 mA, 24 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          | NO contact                            |
| Contact material | AgNi | Mechanical service life | 20 x 10 <sup>6</sup> switching cycles |

**Insulation coordination**

|  |                        |   |                              |
|--|------------------------|---|------------------------------|
| Rated voltage                                    | 300 V                  | Clearance and creepage distances for control side - load side | ≥ 5.5 mm                     |
| Dielectric strength for control side - load side | 4 kV <sub>eff</sub> 1s | Dielectric strength to mounting rail                          | 4 kV <sub>eff</sub> / 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**

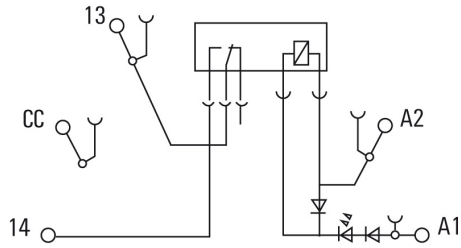
Declaration of Conformity [K205\\_09\\_09.pdf](#)  
[3-D model](#)

**MICROSERIES  
MRS 24Vdc ACT**

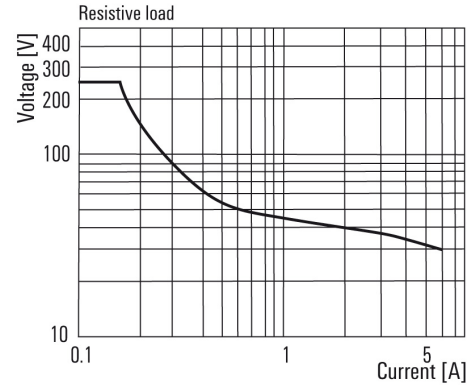
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**Drawings**

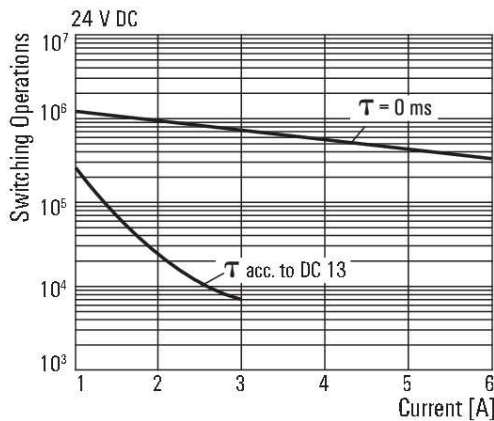
**Electric symbol**



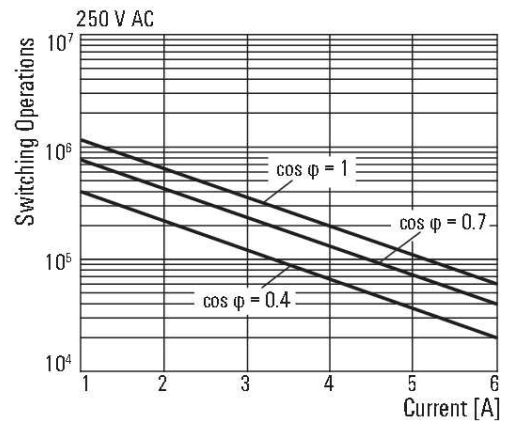
**DC load breaking capacity**



**Electrical endurance**



**Electrical endurance**



**Derating curve**

