



Figure can vary

Part no.: 547933
MSI-CM52B-01
Safety relay



Contents

- Technical data
- Electrical connection
- Operation and display

Part no.: 547933 – MSI-CM52B-01 – Safety relay

Technical data

| Basic data | |
|---|--|
| Series | MSI-CM |
| Functions | |
| Functions | Contact extension for E-stop relays and two-hand control units |
| Restart | Automatic |
| Characteristic parameters | |
| SIL | 3 , IEC 61508 |
| SILCL | 3 , IEC/EN 62061 |
| Performance Level (PL) | e , EN ISO 13849-1 |
| MTTF _d | 262 years , EN ISO 13849-1 |
| PFH _D | 0.0000000001 per hour |
| PFH _D | 1E-10 per hour |
| PFH _D , nop = 8766 | 0.000000000102 per hour |
| Mission time T _M | 20 years , EN ISO 13849-1 |
| Category | 4 , EN ISO 13849 |
| STOP category | 0 , IEC/EN 60204-1 |
| B10 _d at AC15 (inductive load) | 230,000 number of cycles |
| Electrical data | |
| Protective circuit | Overvoltage protection |
| Connection | |
| Number of connections | 1 Piece(s) |
| Connection 1 | |
| Type of connection | Terminal |
| Function | Connection to device Voltage supply |
| Type of terminal | Screw terminal |
| No. of pins | 16 -pin |
| Cable properties | |
| Connection cross sections | 1 x 0.2 to 2.5 mm ² , wire 1 x 0.2 to 2.5 mm ² , wire |
| Mechanical data | |
| Dimension (W x H x L) | 22.5 mm x 99 mm x 114.5 mm |
| Housing material | Plastic , Unreinforced polyamide PA |
| Electrical contact material | AgSnO ₂ , gold flashed |
| Net weight | 231 g |
| Housing color | Gray |
| Type of fastening | Snap-on mounting |
| Mechanical life time | 100,000,000 actuation cycles |
| Operation and display | |
| Type of display | LED |
| Number of LEDs | 1 Piece(s) |

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Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -20 ... 55 °C |
| Ambient temperature, storage | -40 ... 70 °C |

Certifications

| | |
|----------------------|--------------------------------------|
| Degree of protection | IP 20 (terminals) IP 40 (housing) |
| Certifications | c UL TÜV Rheinland UL |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85371098 |
| eCl@ss 8.0 | 27371819 |
| eCl@ss 9.0 | 27371819 |
| ETIM 5.0 | EC001449 |
| ETIM 6.0 | EC001449 |

Electrical connection

| Connection 1 | |
|--------------------|--|
| Type of connection | Terminal |
| Function | Connection to device Voltage supply |
| Type of terminal | Screw terminal |
| No. of pins | 16 -pin |

| Terminal | Assignment |
|----------|--|
| A1 | +24V |
| A2 | GND |
| 11 | External device monitoring circuit (EDM) |
| 12 | External device monitoring circuit (EDM) |
| 23 | Release circuit |
| 24 | Release circuit |
| 71 | Signal contact IN |
| 72 | Signal contact IN |
| 33 | Release circuit |
| 34 | Release circuit |
| 43 | Release circuit |
| 44 | Release circuit |
| 53 | Release circuit |
| 54 | Release circuit |
| 63 | Release circuit |
| 64 | Release circuit |

Operation and display

LEDs

| LED | Display | Meaning |
|-----|-------------------------|-------------------|
| 1 | Green, continuous light | Supply voltage on |