

Technical data sheet

Safety locking device

Part no.: 63000602
L100-P4C3-M20-SLM24

Contents

- Technical data
- Electrical connection



For illustration purposes only



Technical data

Basic data

| | |
|--------|------|
| Series | L100 |
|--------|------|

Functions

| | |
|---------------------|---|
| Functions | Auxiliary release Integration in control circuits up to category 4 in accordance with EN ISO 13849-1 Locking device with guard interlocking according to ISO 14119 Mechanical guard interlocking (spring-force) Switch-on current reduction, adjustable |
| Operating principle | Power to release – Actuator locked if electromagnet is deactivated |

Characteristic parameters

| | |
|--------------------|----------------------------|
| Mission time T_M | 20 years, EN ISO 13849-1 |
| $B10_d$ | 4,000,000 number of cycles |

Electrical data

| | |
|--|--|
| Usage category at DC 13 | Ue / Ie: 24 V / 3 A, 125 V / 0.55 A, 250 V / 0.3 A, EN 60947-5-1 |
| Usage category at AC 15 | Ue / Ie: 250 V / 6 A, 400 V / 4 A, 500 V / 1 A, EN 60947-5-1 |
| Contact allocation, actuator | 1NC |
| Contact allocation, magnet | 2NC |
| Contact opening | Force-fit |
| Magnet operating voltage | 24 V DC, -10 ... 25 % |
| Short circuit protection, magnet | 0.5 A, 24 V, type gG, IEC 60269-1 |
| Short circuit protection, safety circuit | 500 V, 10 A, type aM, IEC 60269-1 |

Performance data

| | |
|------------------------------------|--------------------|
| Rated insulation voltage | 400 V AC, 500 V DC |
| Conventional thermal current, max. | 10 A |

Inputs

Switching inputs

| | |
|--------------------------|----|
| Teach input for actuator | No |
|--------------------------|----|

Time behavior

| | |
|----------------|-------|
| Switch-on time | 100 % |
|----------------|-------|

Connection

| | |
|-------------------------|------------|
| Number of connections | 1 Piece(s) |
| Number of cable entries | 3 Piece(s) |

Connection 1

| | |
|--------------------|--------------------------------------|
| Function | Contact connection Voltage supply |
| Type of connection | Terminal |
| Type of terminal | Screw terminal |
| No. of pins | 8 -pin |

Cable properties

| | |
|---------------------------|--|
| Connection cross sections | 1 x 0.34 mm ² to 2 x 1.5 mm ² , wire |
|---------------------------|--|

Mechanical data

| | |
|-------------------------------------|---|
| Design | Cubic |
| Dimension (W x H x L) | 62.8 mm x 38.2 mm x 135 mm |
| Housing material | Plastic |
| Plastic housing | Glass fiber reinforced (PPS), self-extinguishing |
| Electrical contact material | Silver alloy |
| Net weight | 376 g |
| Housing color | Black Red |
| Type of fastening | Through-hole mounting |
| Type of cable entry | M20 x 1.5 |
| Switch type | Interlock device with guard interlocking, ISO 14119 |
| Switching principle | Slow-action contact |
| Approach actuation directions | 1 x top 4 x side (90°) |
| Approach speed | 0.001 ... 0.5 m/s |
| Locking type | Spring force |
| Locking actuation | Spring |
| Locking force, max. | 1,100 N |
| Mechanical life time | 800,000 actuation cycles, IEC 60947-5-1 |
| Actuation frequency, max. | 600 per hour, IEC 60947-5-1 |
| External actuator | AC-AHxx, series, straight, angled, resilient, alignable |
| Extraction force, unlocked actuator | 30 N |
| Recoil tolerance | 4.5 mm |

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -25 ... 60 °C |
| Degree of contamination | 3, EN 60947-1 |

Certifications

| | |
|----------------------|----------------|
| Degree of protection | IP 67 |
| Approvals | c UL US IMQ |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85369095 |
| ECLASS 5.1.4 | 27272603 |
| ECLASS 8.0 | 27272603 |
| ECLASS 9.0 | 27272603 |
| ECLASS 10.0 | 27272603 |
| ECLASS 11.0 | 27272603 |
| ECLASS 12.0 | 27272603 |
| ECLASS 13.0 | 27272603 |
| ECLASS 14.0 | 27272603 |
| ECLASS 15.0 | 27272603 |
| ETIM 5.0 | EC002593 |
| ETIM 6.0 | EC002593 |
| ETIM 7.0 | EC002593 |
| ETIM 8.0 | EC002593 |
| ETIM 9.0 | EC002593 |
| ETIM 10.0 | EC002593 |

Electrical connection

Connection 1

| | |
|--------------------|--------------------|
| Function | Contact connection |
| | Voltage supply |
| Type of connection | Terminal |
| Type of terminal | Screw terminal |
| No. of pins | 8 -pin |

| Terminal | Assignment |
|----------|----------------|
| 11 | NC(1) magnet |
| 12 | NC(1) magnet |
| 21 | NC(2) magnet |
| 22 | NC(2) magnet |
| 31 | NC(3) actuator |
| 32 | NC(3) actuator |
| A1 | +24V / 0V |
| A2 | 0V / +24V |