

## L100-P4C3-M20-SLM24 Solenoid Spring Interlock



### Basic data

Series L100

### Functions

#### Functions

Locking device with guard interlocking according to ISO 14119, Auxiliary release, Integration in control circuits up to category 4 in accordance with EN ISO 13849, Mechanical guard interlocking (spring-force), Switch-on current reduction, adjustable

### Characteristic parameters

Mission time 20 years, EN ISO 13849-1

B10<sub>d</sub> 5,000,000 number of cycles

### Electrical data

Usage category at DC 13 Ue / Ie: 24 V / 6 A, 125 V / 1.1 A, 250 V / 0.4 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

## Technical Data

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
Contact protection	Protective insulation O

### Performance data

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

### Timing

Switch-on time	100 %
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### Connection

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

### Connection 1

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

### Cable properties

Connection cross sections	1 x 0.34 mm <sup>2</sup> to 2 x 1.5 mm <sup>2</sup> , wire
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#### Mechanical data

Design	Cubic
Dimension (W x H x L)	60.8 mm x 37.6 mm x 135 mm
Housing material	Plastic, 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 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 66
Certifications	IMQ, c UL US

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