

## Technical data sheet Safety locking device

Part no.: 50149762

L100-P5C3-SLM24

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For illustration purposes only



## Technical data

### Basic data

Series	L100
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### 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
$B_{10_d}$	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	-
Contact allocation, magnet	2NC + 1NO
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
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### Time behavior

Switch-on time	100 %
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### 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 <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)	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	414 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
ECLASS 16.0	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
UNSPSC 26.08	39122205

# Electrical connection

## Connection 1

<b>Function</b>	Contact connection
	Voltage supply
<b>Type of connection</b>	Terminal
<b>Type of terminal</b>	Screw terminal
<b>No. of pins</b>	8 -pin

Terminal	Assignment
11	NC(1) magnet
12	NC(1) magnet
21	NC(2) magnet
22	NC(2) magnet
33	NO(1) magnet
34	NO(1) magnet
A1	+24V / 0V
A2	0V / +24V