

Technical data sheet

Safety locking device

Part no.: 63000601
L100-P3C3-M20-MLM24

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- Electrical connection



For illustration purposes only



Technical data

Basic data

Series	L100
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Functions

Functions	Electro-magnetic guard interlocking (magnet-force)
	Integration in control circuits up to category 4 in accordance with EN ISO 13849-1
	Locking device with guard interlocking according to ISO 14119
	Switch-on current reduction, adjustable
Operating principle	Power to lock – Actuator locked if electromagnet is activated

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	1NC + 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 ² to 2 x 1.5 mm ² , 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	373 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	Electromagnetic
Locking actuation	Magnet
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

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) actuator
22	NC(2) actuator
33	NO(1) magnet
34	NO(1) magnet
A1	+24V / 0V
A2	0V / +24V