

Safety switch Series SLC

Description **SLC-F-024-20/20-R4-0001**

Article number **6118200199**

Position monitoring		The actuator is not included in the scope of delivery. It can only be purchased in conjunction with the safety switch.
Actuator inserted Guard closed and locked	Actuator inserted Guard closed and not locked	
without current <pre> E1 o---o E2 11 o---o 12 ⊖ 21 o---o 22 ⊖ 31 o---o 32 ⊕ 41 o---o 42 ⊕ </pre>	with current <pre> E1 o---o E2 11 o---o 12 ⊖ 21 o---o 22 ⊖ 31 o---o 32 ⊕ 41 o---o 42 ⊕ </pre>	
Actuator withdraw Guard not closed and not locked		
with or without current <pre> E1 o---o E2 11 o---o 12 ⊖ 21 o---o 22 ⊖ 31 o---o 32 ⊕ 41 o---o 42 ⊕ </pre>		

Electrical data		
Protection class		II, totally insulated
Contact elements		
Rated insulation voltage	U _i	250 V
Rated impulse withstand voltage	U _{imp}	2,5 kV
Rated operational voltage	U _e	240 V AC / 24 V AC/DC
Conv. thermal current	I _{the}	5 A
Utilization category acc. to IEC		AC-15, U _e / I _e 240 V / 1,5 A DC-13, U _e / I _e 24 V / 1,5 A; 250 V / 0,11 A
Utilization category acc. to UL / CSA		B300 R300 (same polarity)
Performance at min. current		1mA, at 24V DC, U _{KD} 2,4V DC
Direct opening action	⊖	according to IEC/EN 60947-5-1, Annex K
Short-circuit protective device		4 A gG
Rated conditional short-circuit current		400 A
Electro magnet		
Duty cycle		100 % ED (at E1; E2)
Temperature class		F (155 °C)
Permanent power consumption		6,7 VA (W)
Switch operations permanent		10 / min
Operating voltage		24 V AC / DC (+10 % /-15 %)

Mechanical data		
Enclosure	Thermoplastic, glass fibre reinforced (UL 94-V0)	
Cover	Thermoplastic, glass fibre reinforced (UL 94-V0), black (similar to RAL 9005)	
Actuating head	Thermoplastic, glass fibre reinforced / Zn-GD	
Actuator	Separate actuator	
Minimum actuating radius	R_{min}	see separate actuators data sheet
Velocity for actuating	V_{max}	0,5 m/s
Extraction force	≤ 10 N	
Interlocking principle	Spring force	
Unlocking	a) magnetic force b) auxiliary release from front and back side	
Holding force	F_{Zh}	1500 N (EN ISO 14119)
Ambient air temperature	-25 °C to +55 °C	
Contact type	Interlock: 2 NC Guard lock: 2 NC	
Switching principle	4 slow make and break contact elements	
Mechanical life	1 x 10 ⁶ switching cycles	
Assembly	4 x M5	
Connection	Screw connection	
Conductor cross-sections	0,34 ... 1,5 mm ² flexible	
Cable entrance	3 x M20 x 1,5	
Weight	≈ 0,484 kg	
Installation position	operator definable	
Protection type	IP67 acc. to IEC/EN 60529; (UL 50 E / CSA C22.2) Type 6 indoor use only	

ID for safety engineering	
B10d	2 x 10 ⁶ Cycles (at DC-13; 24 V; 0,1 A)

Standards	
	DIN EN 60947-5-1, DIN EN 60947-5-4
	UL 508 18th Edition, CSA-C22.2 No.14-18
	GS-ET-19 (DGUV)
	DIN EN ISO 14119
	DIN EN ISO 13849-1

EU Conformity	
	acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

Approvals	
	DGUV
	cCSA _{US}
	CCC

Notes	
The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable. The switch may not be used as a mechanical stop. In the event of a power failure, the guard remains locked.	