DATASHEET - LS-S02-CC/RL

Position switches, 2N/C, rotary lever, snap-action contact, Cold Climate -40°C

Part no. **LS-S02-CC/RL**
167677

Product name	Eaton Moeller® series LS Rotary lever
Part no.	LS-S02-CC/RL
EAN	4015081642199
Product Length/Depth	110 millimetre
Product height	46 millimetre
Product width	31 millimetre
Product weight	0.066 kilogram
Certifications	CSA-C22.2 No. 14 IEC/EN 60947-5 CSA UL 508 CSA File No.: 012528 IEC/EN 60947 UL UL Category Control No.: NKCR UL File No.: E29184 CE CSA Class No.: 3211-03
Product Tradename	LS
Product Type	Rotary lever
Product Sub Type	None
Catalog Notes	Contacts with safety function, by positive opening to IEC/EN 60947-5-1 Contains a silicone seal to increase resistance to ozone, detergents and disinfectants.
Design	EN 50047 Form A
Enclosure color	Yellow Cover
Enclosure material	Insulated material
Features	The operating head can be rotated 90° to enable adaptation to the specified approach direction Positive opening
Connection type	Screwed terminal
Degree of protection	NEMA 13 IP67 NEMA 4X (indoor use only) NEMA 12 IP66 NEMA 3R
Lifespan, mechanical	8,000,000 Operations
Operating frequency	6000 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Rotary lever
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Type	Position switch Safety position switch
Mounting position	As required
Shock resistance	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm²
Terminal capacity (solid)	1 x (0.5 - 2.5) mm²
Rated insulation voltage (Ui)	400 V
Rated operational current (Ie)	6 A at AC-15, 220 V 230 V 240 V 3 A at 24 V 0.3 A at 220 V 0.6 A at 110 V 4 A at AC-15, 380 V 400 V 415 V 6 A at AC-15, 24 V
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Supply frequency	Max. 400 Hz, Contacts
Actuating force at beginning/end of stroke	1.0 N/8.0 N
Actuating torque of rotary drives	0.2 N·m
Actuator type	Rotary lever
Operating speed	Max. 1.5 m/s (with DIN cam, mechanical actuation)
Control circuit reliability	1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)
Number of contacts (normally closed contacts)	2
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.17 W
Rated operational current for specified heat dissipation (In)	6 A
Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Sensors (EG000026) / Drive head for position switches/hinge switches (EC001483)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Drive head for position switches (ecl@ss10.0.1-27-27-06-04 [BAA083012])

Type of control element	Rotary lever

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