DATASHEET - LS-02-CC-ZB

Position switches, 2N/C, rounded plunger, +actuator ZB, Cold Climate -40°C

Part no. **LS-02-CC-ZB**
177186

Product name	Eaton Moeller® series LS Position switch
Part no.	LS-02-CC-ZB
EAN	4015081716302
Product Length/Depth	96 millimetre
Product height	34 millimetre
Product width	31 millimetre
Product weight	0.08 kilogram
Certifications	IEC/EN 60947
Product Tradename	LS
Product Type	Position switch
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.
Electric connection type	Cable entry metrical
Enclosure material	Insulated material Plastic
Features	Forced opening
Switch function type	Slow-action switch
Connection type	Cage Clamp
Degree of protection	IP65 NEMA Other
Operating frequency	1800 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Safety position switches
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Type	Position switch Safety position switch
Mounting position	As required Vertical Horizontal
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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacity (flexible with ferrule)	2 x (0.5 - 1.5) mm^2 1 x (0.5 - 1.5) mm^2
Terminal capacity (solid)	1 x (0.5 - 1.5) mm^2 2 x (0.5 - 1.5) mm^2
Screw size	PH1, Terminal screw
Rated insulation voltage (Ui)	400 V

Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V			6 A
Rated operational current (Ie) at AC-15, 24 V			6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V			4 A
Rated operational current (Ie) at DC-13, 110 V			0.6 A
Rated operational current (Ie) at DC-13, 125 V			0.8 A
Rated operational current (Ie) at DC-13, 220 V, 230 V			0.3 A
Rated operational current (Ie) at DC-13, 24 V			3 A
Short-circuit protection rating			Max. 6 A gG/gL, Fuse, Contacts
Supply frequency			Max. 400 Hz, Contacts
Actuator type			Plunger
Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			2
Number of contacts (normally open contacts)			0
Explosion safety category for gas			None
Explosion safety category for dust			None
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) / End switch (EC000030)		
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Safety-related position switch / Safety position switch (Type 1) (ecl@ss10.0.1-27-27-26-01 [AKE640013])		
Width sensor	mm	31
Diameter sensor	mm	0
Height of sensor	mm	96

Length of sensor		mm	33.5
Rated operation current Ie at AC-15, 24 V		A	6
Rated operation current Ie at AC-15, 125 V		A	6
Rated operation current Ie at AC-15, 230 V		A	6
Rated operation current Ie at DC-13, 24 V		A	3
Rated operation current Ie at DC-13, 125 V		A	0.8
Rated operation current Ie at DC-13, 230 V		A	0.3
Switching function			Slow-action switch
Switching function latching			No
Output electronic			No
Forced opening			Yes
Number of safety auxiliary contacts			2
Number of contacts as normally closed contact			2
Number of contacts as normally open contact			0
Number of contacts as change-over contact			0
Type of interface			None
Type of interface for safety communication			None
Construction type housing			Cuboid
Material housing			Plastic
Coating housing			Other
Type of control element			Plunger
Alignment of the control element			Other
Type of electric connection			Cable entry metrical
With status indication			No
Suitable for safety functions			Yes
Explosion safety category for gas			None
Explosion safety category for dust			None
Ambient temperature during operating		°C	-40 - 70
Degree of protection (IP)			IP65
Degree of protection (NEMA)			Other

© 04/2023 by Eaton Industries GmbH