Position switch, Roller lever, Complete unit, 1 N/O, 1 NC, Cage Clamp, Yellow, Insulated material, -25 - +70  $^{\circ}$ C, Large



Part no. LS-11/LB 290175

290175 EL Number 4315233 (Norway)

(itolivay)	
General specifications	
Product name	Eaton Moeller® series LS Position switch
Part no.	LS-11/LB
EAN	4015082901752
Product Length/Depth	33.5 millimetre
Product height	108 millimetre
Product width	31 millimetre
Product weight	0.062 kilogram
Compliances	CE Marked
Certifications	IEC 60947-5 EN 60947-5 UL 508 CSA Std. C22.2 No. 14 UL CSA-C22.2 No. 14 IEC/EN 60947-5 UL File No.: E29184 CSA Class No.: 3211-03 CE IEC/EN 60947 CSA CSA File No.: 012528 UL Category Control No.: NKCR
Product Tradename	LS
Product Type	Position switch
Product Sub Type	None
Catalog Notes	The operating head can be rotated 90° to enable adaptation to the specified approach direction
Features & Functions	
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Plastic Insulated material
Features	Forced opening Positive opening
Switch function type	Slow-action switch
General information	
Connection type	Cage Clamp
Degree of protection	IP66/IP67 NEMA Other
Lifespan	8,000,000 mechanical Operations
Operating frequency	6000 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Roller lever
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Туре	Safety position switch
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	25 a Standard entire contest Machanical Half singuistical shoots 20 mg
SHOCK (63/3/airce	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms

Ambient operating temperature - min	-25 °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	
Ferminal capacities		
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm <sup>2</sup>	
Terminal capacity (solid)	1 x (0.5 - 2.5) mm <sup>2</sup>	
Electrical rating		
Rated conditional short-circuit current (Iq)	1 kA	
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 (le) at DC-13, 110 V	0.6 A	
Rated operational current (le) 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 (le) 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		
Actuating force at beginning/end of stroke	1.0 N/8.0 N	
Actuating torque of rotary drives	0.2 N·m	
	Roller lever	
Actuator type  Operating speed	For angle of actuation α = 30°/45°	
Operating Speed	Max. 1 m/s (with DIN cam, mechanical actuation)	
Contacts		
Control circuit reliability	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)	
Number of contacts (change-over contacts)	0	
Number of contacts (normally closed contacts)	1	
Number of contacts (normally open contacts)	1	
Safety		
Explosion safety category for gas	None	
Explosion safety category for dust	None	
Design verification		
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.	

10.9.2 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 9.0**

Sansors (EGN00026)	/ End	cwitch	(ECUUUU3U)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related mechanical switch (sensor technology) / Safety position switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])

mm	31
mm	0
mm	61
mm	33.5
Α	6
Α	6
Α	6
Α	3
А	0.8
Α	0.3
	Slow-action switch
	No
	No
	Yes
	1
	1
	1
	0
	None
	None
	Cuboid
	Plastic
	Other
	Roller lever
	Other
	Cable entry metrical
	No
	Yes
	None
	None
°C	-25 - 70
	IP66/IP67
	Other
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