Specifications



Eaton 106807

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, expandable, 1 N/O, 1 NC, Screw terminal, Black, Insulated material, -25 - +70 °C

PRODUCT NAME Eaton Moeller® series LS Position switch CATALOG NUMBER 106807 MODEL CODE LS-S11-SW EAN 4015081065745 PRODUCT LENGTH/DEPTH 33.5 mm PRODUCT WIDTH PRODUCT WIDTH 31 mm PRODUCT WEIGHT CSA Class No.: 3211-03 CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14 UL COntacts with safety function, by positive opening to IEC/EN 60947- 5-1 GLOBAL CATALOG 106807	General specification	าร
MODEL CODE EAN 4015081065745 PRODUCT LENGTH/DEPTH 33.5 mm PRODUCT WIDTH 76.5 mm PRODUCT WIDTH 31 mm PRODUCT WEIGHT 0.052 kg CSA Class No.: 3211-03 CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14 UL Contacts with safety function, by positive opening to IEC/EN 60947-5-1	·	Eaton Moeller® series LS
## PRODUCT 10	CATALOG NUMBER	106807
PRODUCT LENGTH/DEPTH PRODUCT HEIGHT PRODUCT WIDTH 31 mm PRODUCT WEIGHT 0.052 kg CSA Class No.: 3211-03 CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14 UL Contacts with safety function, by positive opening to IEC/EN 60947-5-1	MODEL CODE	LS-S11-SW
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PRODUCT WEIGHT 0.052 kg CSA Class No.: 3211-03 CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14 UL Contacts with safety function, by positive opening to IEC/EN 60947- 5-1	PRODUCT HEIGHT	76.5 mm
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CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14 UL Contacts with safety function, by positive opening to IEC/EN 60947- 5-1	PRODUCT WEIGHT	0.052 kg
CATALOG NOTES function, by positive opening to IEC/EN 60947-5-1	CERTIFICATIONS	CSA File No.: 012528 UL 508 UL File No.: E29184 CSA IEC/EN 60947-5 IEC/EN 60947 CE UL Category Control No.: NKCR CSA-C22.2 No. 14
GLOBAL CATALOG 106807	CATALOG NOTES	function, by positive opening to IEC/EN 60947-
	GLOBAL CATALOG	106807



Product specifications	
ТҮРЕ	Position switchSafety position switch
FEATURES	Expandable Positive opening Forced opening
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.
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

	Resources	
ch	CATALOGS	eaton-pushbuttons-signal- towers-sensors- assortment-overview- catalog-ca047003en-en- us.pdf
		eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
ill	CONTROL TRAVEL DIAGRAM	eaton-position-switches- diagram-ls-contact-travel- diagram-011.eps
ition s	DECLARATIONS OF	eaton-position-switch- declaration-of-conformity- eu250549en.pdf
e	CONFORMITY	eaton-position-switch- declaration-of-conformity- uk251032en.pdf
s e		eaton-position-switches- plunger-ls-dimensions- 004.eps
e	DRAWINGS	eaton-position-switches- plunger-ls-dimensions- 002.eps
ded ne _) is		eaton-operating-button- symbol-005.eps
		<u>eaton-position-switches-</u> <u>plunger-ls-3d-drawing.eps</u>
nents.	ECAD MODEL	ETN.106807.edz
nents.	INSTALLATION INSTRUCTIONS	<u>IL053001ZU</u>
	MCAD MODEL	DA-CS-Is DA-CD-Is
nents.	SALES NOTES	eaton-safety-switches-rs- titan-flyer-fl053001en-en- us.pdf
nents.	WIRING DIAGRAMS	eaton-position-switches- contact-ls-wiring- diagram.eps

	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE MATERIAL FINISHING	Other
OPERATING FREQUENCY	6000 Operations/h
POLLUTION DEGREE	3
ACTUATOR ALIGNMENT	Roller cam straight
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
ENCLOSURE MATERIAL	Plastic Insulated material
ENCLOSURE TYPE	Cuboid
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

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
SENSOR HEIGHT	61 mm
SENSOR LENGTH	33.5 mm
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
WIDTH SENSOR	31 mm
PRODUCT CATEGORY	Rounded plunger
ACTION	2020122120328- Mechanical Limit Switches.xlsm-Data
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ENCLOSURE COLOR	Black (Cover)
ACTUATING FORCE AT BEGINNING/END OF STROKE	1.0 N/8.0 N
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
ACTUATOR TYPE	Plunger
ACTUATING TORQUE OF ROTARY DRIVES	0.2 Nm
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
DIAMETER SENSOR	0 mm
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.17 W
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

NUMBER OF SAFETY AUXILIARY CONTACTS	1
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 125 V	6 A
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
MOUNTING POSITION	As required
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
CONNECTION TYPE	Screw terminal
TEMPERATURE RESISTANCE	100 °C, Contact temperature of roller head
DEGREE OF PROTECTION	IP66/IP67 NEMA Other
INTERFACE TYPE	None
SWITCH FUNCTION TYPE	Quick-break switch
LIFESPAN	8,000,000 mechanical Operations
REPETITION ACCURACY	0.15 mm (Contacts/switching capacity)
SHOCK RESISTANCE	25 g, Standard-action contact, Mechanical, Half- sinusoidal shock 20 ms
SUPPLY FREQUENCY	Max. 400 Hz, Contacts
SUITABLE FOR	Safety functions
	Max. 1/0.5 m/s (with DIN cam, mechanical

	0°/30°
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm²
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm ²

PROJECT NAME: PROJECT NUMBER: PREPARED BY: DATE:



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