Specifications



Eaton 272020

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, expandable, 1 N/O, 1 NC, Cage Clamp, Black, Insulated material, -25 - +70 °C, EN 50047 Form B

General specifications	
PRODUCT NAME	Eaton Moeller® series LS Position switch
CATALOG NUMBER	272020
MODEL CODE	LS-11S-SW
EAN	4015082720209
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.051 kg
CERTIFICATIONS	UL 508 CSA File No.: 012528 CE CSA IEC/EN 60947 IEC/EN 60947-5 UL Category Control No.: NKCR CSA-C22.2 No. 14 UL File No.: E29184 CSA Class No.: 3211-03 UL
GLOBAL CATALOG	272020



Product specification	S
ТҮРЕ	Safety position switch
FEATURES	Forced opening Positive opening Expandable Snap-action contact
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 standard's requirements.
10.3 DEGREE OF	Does not apply, since the

	Resources	
:h		eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
	CATALOGS	eaton-pushbuttons-signal- towers-sensors- assortment-overview- catalog-ca047003en-en- us.pdf
ill tion	CONTROL TRAVEL DIAGRAM	eaton-position-switches- diagram-ls-contact-travel- diagram-014.eps
5 2	DECLARATIONS OF	eaton-position-switch- declaration-of-conformity- uk251032en.pdf
5	CONFORMITY	eaton-position-switch- declaration-of-conformity- eu250549en.pdf
e 		eaton-position-switches- plunger-ls-dimensions- 004.eps
e ded ne .) is	DRAWINGS	eaton-position-switches- plunger-ls-dimensions- 002.eps
		eaton-operating-button- symbol-005.eps
ents.		<u>eaton-position-switches-</u> <u>plunger-ls-3d-drawing.eps</u>
ents.	ECAD MODEL	ETN.272020.edz
	INSTALLATION INSTRUCTIONS	<u>IL053001ZU</u>
ents.	MCAD MODEL	DA-CS-Is DA-CD-Is
	SALES NOTES	eaton-safety-switches-rs- titan-flyer-fl053001en-en- us.pdf
ents.	WIRING DIAGRAMS	eaton-position-switches- contact-ls-wiring- diagram.eps
ants		

PROTECTION OF ASSEMBLIES	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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Insulated material Plastic
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	6 A
CURRENT FOR SPECIFIED	

HEAT DISSIPATION (IN)	
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
DESIGN	EN 50047 Form B
MOUNTING POSITION	As required
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
OVERVOLTAGE CATEGORY	Ш
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	Cage Clamp
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
OPERATING SPEED	For angle of actuation α = 0°/30° Max. 1/0.5 m/s (with DIN cam, mechanical actuation)

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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