Specifications



Eaton 290174

Eaton Moeller® series LS Position switch, Roller lever, Complete unit, 1 N/O, 1 NC (late-break), Cage Clamp, Yellow, Insulated material, -25 - +70 °C, Short

General specification	าร	
PRODUCT NAME	Eaton Moeller® series LS Position switch	
CATALOG NUMBER	290174	
MODEL CODE	LS-11D/LS	
EAN	4015082901745	
PRODUCT LENGTH/DEPTH	33.5 mm	
PRODUCT HEIGHT	91 mm	
PRODUCT WIDTH	31 mm	
PRODUCT WEIGHT	0.06 kg	
CERTIFICATIONS	UL 508 CSA Class No.: 3211-03 IEC/EN 60947-5 UL Category Control No.: NKCR UL File No.: E29184 IEC/EN 60947 CE UL CSA File No.: 012528 CSA CSA-C22.2 No. 14	
CATALOG NOTES	The operating head can be rotated 90° to enable adaptation to the specified approach direction	
GLOBAL CATALOG	290174	



Product specification	S
ТҮРЕ	Safety position switch
FEATURES	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	ls 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 PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.

	Resources	
		eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
1	CATALOGS	eaton-pushbuttons-signal- towers-sensors- assortment-overview- catalog-ca047003en-en- us.pdf
	CONTROL TRAVEL DIAGRAM	eaton-position-switches- diagram-ls-contact-travel- diagram-004.eps
	DECLARATIONS OF CONFORMITY	eaton-position-switch- declaration-of-conformity- uk251032en.pdf
(eaton-position-switch- declaration-of-conformity- eu250549en.pdf
		eaton-position-switches- plunger-ls-dimensions- 004.eps
	DRAWINGS	eaton-position-switches-ls- dimensions-006.eps
S.		eaton-position-switches-ls- dimensions-003.eps
S.		eaton-operating-button- symbol-008.eps
	ECAD MODEL	ETN.290174.edz
:S.	INSTALLATION INSTRUCTIONS	<u>IL053001ZU</u>
	MCAD MODEL	DA-CS-Is Is DA-CD-Is Is
S.	SALES NOTES	eaton-safety-switches-rs- titan-flyer-fl053001en-en- us.pdf
	WIRING DIAGRAMS	eaton-position-switches- contact-ls-wiring-diagram- 004.eps
:S		

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	Other	
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78	
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 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	Roller lever	
ACTION	2020122120328- Mechanical Limit Switches.xlsm-Data	
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC	
ENCLOSURE COLOR	Yellow 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	Roller lever	
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 RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V RATED OPERATIONAL CURRENT (IE) AT AC-15, 280 V, 400 V, 415 V MOUNTING POSITION RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ) OVERVOLTAGE CATEGORY III I 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) CONNECTION TYPE Cage Clamp DEGREE OF PROTECTION INTERFACE TYPE None SWITCH FUNCTION TYPE SIOW-action switch LIFESPAN REPETITION ACCURACY SHOCK RESISTANCE OPERATING SPEED OPERATING SPEED RAMA OTHER SAFELY FUNCTIONS SUPPLY FREQUENCY MAX. 400 Hz, Contacts SUITABLE FOR Safety functions For angle of actuation q = 30°/45° Max. 1 m/s (with DIN cam, mechanical actuation) MAX. 6 A g G/gL, Fuse, Contacts TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) TERMINAL CAPACITY TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) TERMINAL CAPACITY TERMINAL CAP			
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PROJECT	NAME:
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PROJECT NUMBER:

PREPARED BY:

DATE:



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