

Specifications



Eaton 292374

Eaton Moeller® series LSM Safety position switch, 1N/O+1N/C, rounded plunger, front mount LSM-11S/F

General specifications

PRODUCT NAME	Eaton Moeller® series LSM Safety position switch
CATALOG NUMBER	292374
MODEL CODE	LSM-11S/F
EAN	4015082923747
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.15 kg
CERTIFICATIONS	UL CSA Class No.: 3211-03 UL 508 IEC/EN 60947 CSA CSA File No.: 012528 CSA-C22.2 No. 14 UL Category Control No.: NKCR IEC/EN 60947-5 CE UL File No.: E29184



Powering Business Worldwide

Features & Functions

ELECTRIC CONNECTION TYPE	Cable entry metrical
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ENCLOSURE COLOR	Yellow Cover
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ENCLOSURE MATERIAL	Metal
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FEATURES	Positive opening Forced opening Snap-action contact
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SWITCH FUNCTION TYPE	Quick-break switch
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Ambient conditions, mechanical

MOUNTING POSITION	As required
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SHOCK RESISTANCE	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
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TEMPERATURE RESISTANCE	100 °C, Contact temperature of roller head
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Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ²
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TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm ²
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General

CONNECTION TYPE	Cage Clamp
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DEGREE OF PROTECTION	IP66/IP67 NEMA Other
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OPERATING FREQUENCY	6000 Operations/h
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OVERVOLTAGE CATEGORY	III
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POLLUTION DEGREE	3
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PRODUCT CATEGORY	Rounded plunger
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
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REPETITION ACCURACY	0.15 mm (Contacts/switching capacity)
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SUITABLE FOR	Safety functions
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TYPE	Safety position switch
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT OPERATING TEMPERATURE - MAX	70 °C
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CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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Electrical rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
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RATED INSULATION VOLTAGE (UI)	400 V
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V	6 A
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RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
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RATED OPERATIONAL CURRENT (IE) AT DC-13,	0.6 A
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Actuator

ACTUATING FORCE AT BEGINNING/END OF STROKE	1.0 N/8.0 N
ACTUATING TORQUE OF ROTARY DRIVES	0.2 Nm
ACTUATOR TYPE	Plunger
OPERATING SPEED	Max. 1/0.5 m/s (with DIN cam, mechanical actuation) For angle of actuation $\alpha = 0^\circ/30^\circ$

Safety

EXPLOSION SAFETY CATEGORY FOR GAS	None
EXPLOSION SAFETY CATEGORY FOR DUST	None

110 V

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

Contacts

CONTROL CIRCUIT RELIABILITY	1 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)
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

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	0 W

PVS	
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.

Resources

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

CONTROL TRAVEL DIAGRAM

[eaton-position-switches-diagram-ls-contact-travel-diagram-014.eps](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004160.pdf](#)

[DA-DC-00004133.pdf](#)

DRAWINGS

[eaton-position-switches-switch-ls-dimensions.eps](#)

[eaton-position-switches-plunger-ls-dimensions.eps](#)

[eaton-operating-button-symbol-008.eps](#)

[eaton-position-switches-ls-3d-drawing.eps](#)

ECAD MODEL

[ETN.292374.edz](#)

INSTALLATION INSTRUCTIONS

[IL053001ZU](#)

MCAD MODEL

[DA-CD-lsm front](#)

[DA-CS-lsm front](#)

PEP ECO-PASSPORT

[eaton-position-switch-declaration-of-conformity-uk251032en.pdf](#)

[eaton-position-switch-declaration-of-conformity-eu250549en.pdf](#)

SALES NOTES

[eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf](#)

WIRING DIAGRAMS

[eaton-position-switches-contact-ls-wiring-diagram.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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