

Specifications



Photo is representative

Eaton 266140

Eaton Moeller® series LSM Safety position switch, LS(M)-..., Rounded plunger, Basic device, expandable, 1 N/O, 1 NC, EN 50047 Form B, Snap-action contact - Yes, Yellow, Metal, Cage Clamp, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LSM Safety position switch
CATALOG NUMBER	266140
MODEL CODE	LSM-11S
EAN	4015082661403
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.147 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	UL 508 EN 60947-5 IEC 60947-5 CSA Std. C22.2 No. 14 CSA Class No.: 3211-03 CSA File No.: 012528 CSA-C22.2 No. 14 IEC/EN 60947-5 UL Category Control No.: NKCR IEC/EN 60947 UL CE CSA UL File No.: E29184

Features & Functions

DESIGN	EN 50047 Form B
ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE COLOR	Yellow Cover
ENCLOSURE MATERIAL	Metal
FEATURES	Forced opening Positive opening Expandable Snap-action contact
SWITCH FUNCTION TYPE	Quick-break switch

Ambient conditions, mechanical

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

Terminal capacities

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

General

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

Climatic environmental conditions

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

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 (IE) AT DC-13,	0.6 A

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 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)

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

CATALOGUES

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

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

CONTROL TRAVEL DIAGRAM

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

DECLARATIONS OF CONFORMITY

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

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

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

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

DRAWINGS

[eaton-position-switches-plunger-ls-dimensions-002.eps](#)

[eaton-position-switches-plunger-ls-dimensions-004.eps](#)

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

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

ECAD MODEL

[ETN.266140.edz](#)

INSTALLATION INSTRUCTIONS

[IL053001ZU](#)

MCAD MODEL

[DA-CS-lsm](#) [DA-CD-lsm](#)

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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