

Specifications



Eaton 272007

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, expandable, 1 N/O, 1 NC (late-break), Cage Clamp, Black, Insulated material, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LS Position switch
CATALOG NUMBER	272007
MODEL CODE	LS-11D-SW
EAN	4015082720070
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.051 kg

CERTIFICATIONS	IEC/EN 60947 CSA File No.: 012528 UL Category Control No.: NKCR IEC/EN 60947-5 UL CSA Class No.: 3211-03 CSA-C22.2 No. 14 CE UL File No.: E29184 CSA UL 508
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Features & Functions

ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE COLOR	Black (Cover)
ENCLOSURE MATERIAL	Plastic Insulated material
FEATURES	Expandable Forced opening Positive opening
SWITCH FUNCTION TYPE	Slow-action switch

General

CONNECTION TYPE	Cage Clamp
DEGREE OF PROTECTION	IP66/IP67 NEMA Other
OPERATING FREQUENCY	6000 Operations/h
OVERTVOLTAGE 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

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

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

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

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

110 V

RATED OPERATIONAL CURRENT (IE) AT DC-13, 0.8 A
125 V

RATED OPERATIONAL CURRENT (IE) AT DC-13, 0.3 A
220 V, 230 V

RATED OPERATIONAL CURRENT (IE) AT DC-13, 3 A
24 V

SHORT-CIRCUIT PROTECTION RATING Max. 6 A gG/gL, Fuse, Contacts

SUPPLY FREQUENCY Max. 400 Hz, Contacts

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 For angle of actuation $\alpha = 0^\circ/30^\circ$
 Max. 1/0.5 m/s (with DIN cam, mechanical actuation)

Contacts

1 failure per 10,000,000 switching operations
 (Statistically determined, at 24 V DC/5 mA)
CONTROL CIRCUIT RELIABILITY 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

Safety

EXPLOSION SAFETY CATEGORY FOR GAS None

EXPLOSION SAFETY CATEGORY FOR DUST None

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-012.eps](#)

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

DECLARATIONS OF CONFORMITY

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

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

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

DRAWINGS

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

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

[eaton-operating-button-symbol-005.eps](#)

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

ECAD MODEL

[ETN.272007.edz](#)

INSTALLATION INSTRUCTIONS

[IL053001ZU](#)

MCAD MODEL

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

SALES NOTES

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

WIRING DIAGRAMS

[eaton-position-switches-contact-ls-wiring-diagram-004.eps](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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