

Specifications



Eaton 106792

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, not expandable, 1 N/O, 1 NC (late-break), Screw terminal, Yellow, Insulated material, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LS Position switch
CATALOG NUMBER	106792
MODEL CODE	LS-S11D/F
EAN	4015081065592
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.05 kg
CERTIFICATIONS	CSA CSA Class No.: 3211-03 CSA-C22.2 No. 14 UL 508 UL Category Control No.: NKCR UL CE IEC/EN 60947 UL File No.: E29184 CSA File No.: 012528 IEC/EN 60947-5
CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

Features & Functions

ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE COLOR	Yellow Cover
ENCLOSURE MATERIAL	Insulated material Plastic
FEATURES	Forced opening Positive opening
SWITCH FUNCTION TYPE	Slow-action 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	Screw terminal
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	• Position switch • 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,	4 A

380 V, 400 V, 415 V

**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

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

Safety

**EXPLOSION SAFETY
CATEGORY FOR GAS** None

**EXPLOSION SAFETY
CATEGORY FOR DUST** None

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 PVS	0 W
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
DECLARATIONS OF CONFORMITY	DA-DC-00004133.pdf DA-DC-00004160.pdf
DRAWINGS	eaton-position-switches-plunger-ls-dimensions.eps eaton-position-switches-switch-ls-dimensions.eps eaton-position-switches-ls-3d-drawing.eps eaton-operating-button-symbol-008.eps
ECAD MODEL	ETN.106792.edz
INSTALLATION INSTRUCTIONS	IL053001ZU
MCAD MODEL	DA-CS-ls front DA-CD-ls 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-004.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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