

# Specifications



## Eaton 106799

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, not expandable, 1 N/O, 1 NC, Screw terminal, Yellow, Insulated material, -25 - +70 °C LS-S11S/F

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series LS Position switch
<b>CATALOG NUMBER</b>	106799
<b>MODEL CODE</b>	LS-S11S/F
<b>EAN</b>	4015081065660
<b>PRODUCT LENGTH/DEPTH</b>	33.5 mm
<b>PRODUCT HEIGHT</b>	76.5 mm
<b>PRODUCT WIDTH</b>	31 mm
<b>PRODUCT WEIGHT</b>	0.05 kg
<b>CERTIFICATIONS</b>	UL 508 CSA UL Category Control No.: NKCR CSA Class No.: 3211-03 IEC/EN 60947 CE UL File No.: E29184 IEC/EN 60947-5 CSA-C22.2 No. 14 CSA File No.: 012528 UL
<b>CATALOG NOTES</b>	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

## Features & Functions

<b>ELECTRIC CONNECTION TYPE</b>	Cable entry metrical
<b>ENCLOSURE COLOR</b>	Yellow Cover
<b>ENCLOSURE MATERIAL</b>	Insulated material Plastic
<b>FEATURES</b>	Forced opening Positive opening Snap-action contact
<b>SWITCH FUNCTION TYPE</b>	Quick-break switch

## Ambient conditions, mechanical

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

## Terminal capacities

<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (0.5 - 1.5) mm <sup>2</sup>
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (0.5 - 2.5) mm <sup>2</sup>

## General

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

## Climatic environmental conditions

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

## Electrical rating

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

<b>PVS</b>	
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.

<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

CATALOGUES	<a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>
	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
CONTROL TRAVEL DIAGRAM	<a href="#">eaton-position-switches-diagram-ls-contact-travel-diagram-014.eps</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-position-switch-declaration-of-conformity-uk251032en.pdf</a>
	<a href="#">DA-DC-00004160.pdf</a>
	<a href="#">eaton-position-switch-declaration-of-conformity-eu250549en.pdf</a>
DRAWINGS	<a href="#">DA-DC-00004133.pdf</a>
	<a href="#">eaton-position-switches-plunger-ls-dimensions.eps</a>
	<a href="#">eaton-position-switches-switch-ls-dimensions.eps</a>
	<a href="#">eaton-operating-button-symbol-008.eps</a>
	<a href="#">eaton-position-switches-ls-3d-drawing.eps</a>
ECAD MODEL	<a href="#">ETN.106799.edz</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL053001ZU</a>
MCAD MODEL	<a href="#">DA-CS-ls_front</a>
	<a href="#">DA-CD-ls_front</a>
SALES NOTES	<a href="#">eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf</a>
WIRING DIAGRAMS	<a href="#">eaton-position-switches-contact-ls-wiring-diagram.eps</a>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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