

# Specifications



## Eaton 106810

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, expandable, 2 N/O, Screw terminal, Yellow, Insulated material, -25 - +70 °C, version A

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series LS Position switch
<b>CATALOG NUMBER</b>	106810
<b>EAN</b>	4015081065776
<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>	0.045 kg
<b>CERTIFICATIONS</b>	UL 508 UL Category Control No.: NKCR CSA File No.: 012528 CSA Class No.: 3211-03 IEC/EN 60947-5 CE CSA-C22.2 No. 14 UL File No.: E29184 UL CSA IEC/EN 60947
<b>MODEL CODE</b>	LS-S20A



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## Features & Functions

**ELECTRIC CONNECTION TYPE** Cable entry metrical

**ENCLOSURE COLOR** Yellow Cover

**ENCLOSURE MATERIAL** Plastic  
Insulated material

**FEATURES** Expandable

**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<sup>2</sup>

**TERMINAL CAPACITY (SOLID)** 1 x (0.5 - 2.5) mm<sup>2</sup>

## General information

**CONNECTION TYPE** Screw terminal

**DEGREE OF PROTECTION** IP66/IP67  
NEMA Other

**LIFESPAN** 8,000,000 mechanical  
Operations

**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)

**TYPE** 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, 110 V** 0.6 A

<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V</b>	0.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>	3 A
<b>SHORT-CIRCUIT PROTECTION RATING</b>	Max. 6 A gG/gL, Fuse, Contacts
<b>SUPPLY FREQUENCY</b>	Max. 400 Hz, Contacts

## Actuator

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

## Safety

<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None

## Contacts

<b>CONTROL CIRCUIT RELIABILITY</b>	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)
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	2

## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.17 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	6 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<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-005.eps</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-position-switch-declaration-of-conformity-uk251032en.pdf</a>
DRAWINGS	<a href="#">eaton-position-switches-plunger-ls-dimensions-002.eps</a> <a href="#">eaton-position-switches-plunger-ls-dimensions-004.eps</a> <a href="#">eaton-operating-button-symbol-008.eps</a> <a href="#">eaton-position-switches-plunger-ls-3d-drawing.eps</a>
ECAD MODEL	<a href="#">ETN.106810.edz</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL053001ZU</a>
MCAD MODEL	<a href="#">DA-CS-ls</a> <a href="#">DA-CD-ls</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-002.eps</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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