

# Eaton 106819

Catalog Number: 106819

Eaton Moeller® series LS Safety position switch, 1N/O+1N/C, insulated material, +actuator ZB, spring clamp connection LS-11-ZB



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller® series LS Safety position switch	106819
	<b>Model Code</b>
	LS-11-ZB
<b>EAN</b>	<b>Product Length/Depth</b>
4015081066322	95 mm
<b>Product Height</b>	<b>Product Width</b>
30 mm	30 mm
<b>Product Weight</b>	<b>Certifications</b>
0.08 kg	UL File No.: E29184
	CSA
	CE
	CSA File No.: 012528
	CSA Class No.: 3211-03
	CSA-C22.2 No. 14
	IEC/EN 60947
	UL 508
	IEC/EN 60947-5
	UL
	UL Category Control No.: NKCR

## Product specifications

### Rated operational current for specified heat dissipation (I<sub>n</sub>)

6 A

### Repetition accuracy

0.15 mm (Contacts/switching capacity)

### Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm<sup>2</sup>

2 x (0.5 - 1.5) mm<sup>2</sup>

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### Rated operational current (I<sub>e</sub>) at DC-13, 125 V

0.8 A

### Diameter sensor

0 mm

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Interface type

None

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Screw size

PH1, Terminal screw

### Rated conditional short-circuit current (I<sub>q</sub>)

1 kA

### Actuator type

Other

### Sensor height

96 mm

## Resources

### Catalogs

Product Range Catalog Command and Indication Control Circuit Devices, Signal Towers

### Certification reports

DA-DC-00004133.pdf

DA-DC-00004160.pdf

### Drawings

eaton-safety-position-switches-ls-dimensions.eps

eaton-safety-position-switches-switch-ls-3d-drawing.eps

### eCAD model

DA-CE-ETN.LS-11-ZB

### Installation instructions

eaton-position-switches-ls-zb-safety-position-switch-instruction-leaflet-il05208003z

### mCAD model

DA-CD-ls\_zb\_mit\_betaetiger

DA-CS-ls\_zb\_mit\_betaetiger

### System overview

Flyer - Safety Switches RS-Titan. Non-contact monitoring of movable guards using RS-Titan

### Wiring diagrams

eaton-safety-position-switches-contact-ls-wiring-diagram.eps

#### Explosion safety category for gas

None

#### Sensor length

33.35 mm

#### Enclosure type

Cuboid

#### Ambient operating temperature - max

70 °C

#### Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

#### Rated operational current (I<sub>e</sub>) at AC-15, 24 V

10 A

#### Features

Forced opening

#### Static heat dissipation, non-current-dependent P<sub>vs</sub>

0 W

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### Ambient operating temperature - min

-25 °C

#### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

#### Mounting position

Vertical

As required

Horizontal

#### Rated operational current (I<sub>e</sub>) at AC-15, 220 V, 230 V, 240 V

6 A

#### Electric connection type

Cable entry metrical

#### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Number of contacts (normally closed contacts)

1

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

#### Width sensor

30 mm

#### Heat dissipation per pole, current-dependent P<sub>vid</sub>

0.17 W

#### Rated operational current (I<sub>e</sub>) at AC-15, 380 V, 400 V, 415 V

4 A

#### Operating frequency

1800 Operations/h

#### Product category

Safety position switches

#### Action

2021118113756-Mechanical Limit Switches.xlsm-Data

#### Equipment heat dissipation, current-dependent P<sub>vid</sub>

0 W

#### Heat dissipation capacity P<sub>diss</sub>

0 W

#### Suitable for

Safety functions

#### Terminal capacity (solid)

1 x (0.5 - 1.5) mm<sup>2</sup>

2 x (0.5 - 1.5) mm<sup>2</sup>

#### 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.

#### Connection type

Cage Clamp

Rated operational current (Ie) at DC-13, 220 V, 230 V

0.3 A

Switch function type

Slow-action switch

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Overvoltage category

III

Degree of protection

IP66

NEMA Other

Enclosure material finishing

Other

Pollution degree

3

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Rated impulse withstand voltage (Uimp)

4000 V AC

Actuator alignment

Other

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Rated operational current (Ie) at AC-15, 125 V

6 A

Tightening torque

0.4 Nm, Screw terminals

Number of safety auxiliary contacts

0

Enclosure material

Insulated material

Plastic

Explosion safety category for dust

None

Type

10.2.2 Corrosion resistance

Position switch

Safety position switch

Meets the product standard's requirements.

Actuating force at beginning/end of stroke

10 N/5 N (plug-in/pull-out)

Supply frequency

Max. 400 Hz, Contacts

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

Number of contacts (normally open contacts)

1

Short-circuit protection rating

Max. 6 A gG/gL, Fuse, Contacts

Rated operational current (I<sub>e</sub>) at DC-13, 110 V

0.6 A

Number of contacts (change-over contacts)

0

Lifespan

1,500,000 mechanical Operations

Shock resistance

25 g, Standard-action contact, Mechanical, Half-sinusoidal shock

20 ms

Rated operational current (I<sub>e</sub>) at DC-13, 24 V

3 A

Rated insulation voltage (U<sub>i</sub>)

400 V



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