Specifications

Eaton 110959



Catalog Number: 110959

Eaton Moeller® series LS Safety position switch, 1N/O+1N/C, insulated material, without actuator, spring clamp connection LS-11S-ZB/X

General specifications

Product Name
Eaton Moeller® series LS Safety position switch

Catalog Number
110959

EAN
4015081105229

Product Length/Depth
90 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.075 kg

Certifications
IEC/EN 60947

Catalog Notes
With the actuator inserted, the N/O contact is open and the NC contact is closed.

Powering Business Worldwide

Product specifications

Type

Safety position switch

Features

Forced opening

Snap-action contact

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.

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.

Resources

Catalogs

eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Declarations of conformity

DA-DC-00004160.pdf

DA-DC-00004133.pdf

Drawings

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

eCAD model

ETN.110959.edz

Installation instructions

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

mCAD model

DA-CD-ls_zb_ohne_betaetiger

DA-CS-ls_zb_ohne_betaetiger

Sales notes

eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf

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.

Electric connection type

Cable entry metrical

Enclosure material finishing

Other

Operating frequency

1800 Operations/h

Pollution degree

3

Actuator alignment

Other

Climatic proofing

Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Enclosure material

Plastic

Enclosure type

Cuboid

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

Rated operational current for specified heat dissipation (In)

6 A

Sensor height

96 mm

Sensor length

33.35 mm

Static heat dissipation, non-current-dependent Pvs

0 W

Width sensor

30 mm

Product category

Safety position switches

Action

2020122120328-Mechanical Limit Switches.xlsm-Data

Rated impulse withstand voltage (Uimp)

6000 V AC

Explosion safety category for dust

None

Explosion safety category for gas

None

Actuator type

Other

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Diameter sensor

0 mm

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.17 W

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

1

Number of safety auxiliary contacts

1

Rated insulation voltage (Ui)

500 V

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

6 A

Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V

6 A

Rated operational current (Ie) at AC-15, 24 V

10 A

Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V

4 A

Mounting position

As required

Overvoltage category

III

Degree of protection

IP66

NEMA Other

Interface type

None

Switch function type

Slow-action switch

Screw size

PH1, Terminal screw

Repetition accuracy

0.15 mm (Contacts/switching capacity)

Shock resistance

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

20 ms

Supply frequency

Max. 400 Hz, Contacts

Suitable for

Safety functions

Short-circuit protection rating

Max. 6 A gG/gL, Fuse, Contacts

Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm²

2 x (0.5 - 1.5) mm²

Terminal capacity (solid)

1 x (0.5 - 1.5) mm²

2 x (0.5 - 1.5) mm²

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Eaton.com/socialmedia