

Eaton 106828

Catalog Number: 106828

Eaton Moeller® series LS Position switch, 1N/O+1N/C, basic, magnet-powered interlock LS-S11-230AMT-ZBZ/X



General specifications

Product Name	Catalog Number
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Eaton Moeller® series LS Position switch	106828
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Model Code	EAN
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LS-S11-230AMT-ZBZ/X	4015081065882
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Product Length/Depth

55 mm

Product Height

170 mm

Product Width

37 mm

Product Weight

0.417 kg

Certifications

CSA

UL Category Control No.: NKCR

IEC/EN 60947

UL

CSA-C22.2 No. 14

IEC/EN 60947-5

UL 508

CE

CSA Class No.: 3211-03

CSA File No.: 012528

UL File No.: E29184

Product specifications

Features

Forced opening

Expandable

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.

10.2.3.2 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

Resources

Catalogs

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

Declarations of conformity

[DA-DC-00004361.pdf](#)

[DA-DC-00004360.pdf](#)

Drawings

[eaton-position-switches-ls-dimensions.eps](#)

eCAD model

[ETN.106828.edz](#)

Installation instructions

[eaton-ls-s-zbz-safety-position-switch-instruction-leaflet-il05208005z.pdf](#)

mCAD model

[DA-CD-zbz](#)

[DA-CS-zbz](#)

Sales notes

[eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf](#)

Specifications and datasheets

[Eaton Specification Sheet - 106828](#)

Wiring diagrams

[eaton-position-switches-contact-ls-wiring-diagram-005.eps](#)

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.

Electric connection type

Cable entry metrical

Enclosure material finishing

Other

Fitted with:

Interlock monitoring

Operating frequency

800 Operations/h

Pollution degree

3

Actuator alignment

Other

Climatic proofing

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

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

Enclosure material

Insulated material

Plastic

Enclosure type

Cuboid

Rated operational current (I_e) at DC-13, 110 V

0.8 A

Rated operational current (I_e) at DC-13, 125 V

0.8 A

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

0.3 A

Rated operational current (I_e) at DC-13, 24 V

3 A

Rated operational current for specified heat dissipation (I_n)

6 A

Sensor height

173 mm

Sensor length

39 mm

Static heat dissipation, non-current-dependent P_{vs}

0 W

Width sensor

60 mm

Product category

Basic units with spring-powered interlock (closed-circuit principle)

Action

2021118113756-Mechanical Limit Switches.xlsm-Data

Force for positive opening - min

50 N

Rated impulse withstand voltage (U_{imp})

4000 V AC

Actuating force at beginning/end of stroke

25 N/15 N (plug-in/pull-out)

Explosion safety category for dust

None

Explosion safety category for gas

None

Actuator type

None

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Diameter sensor

0 mm

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

0.13 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 (U_i)

400 V

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

6 A

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

6 A

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

6 A

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

4 A

Mounting position

As required

Rated conditional short-circuit current (I_q)

1 kA

Overvoltage category

III

Connection type

Screw terminal

Duty factor

100 % (Magnet)

Degree of protection

IP65

NEMA Other

Interface type

None

Switch function type

Slow-action switch

Lifespan

1,000,000 mechanical Operations

Rated control supply voltage

230 V 50/60 Hz (Us, for magnet drive)

Repetition accuracy

0.02 mm (Contacts/switching capacity)

Shock resistance

10 g, Standard-action contact, Mechanical, Half-Sinusoidal
shock 20 ms

Mechanical holding force

1600 N (according to GS-ET-19 (04/2004), XWA, XFG, XF)

1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG)

1200 N (according to GS-ET-19 (04/2004), XNW)

Supply frequency

Max. 400 Hz, Contacts

Suitable for

Safety functions

Power consumption

8 W at 24 V DC (electromechanical actuation)

8 VA at 120 V AC (electromechanical actuation)

11 VA at 230 V AC (electromechanical actuation)

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)

2 x (0.75 - 1.5) mm²

1 x (0.75 - 2.5) mm²



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