# Specifications



**Photo is representative**

## Eaton 106828

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

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series LS Position switch |
| **CATALOG NUMBER** | 106828 |
| **MODEL CODE** | LS-S11-230AMT-ZBZ/X |
| **EAN** | 4015081065882 |
| **PRODUCT LENGTH/DEPTH** | 55 mm |
| **PRODUCT HEIGHT** | 170 mm |
| **PRODUCT WIDTH** | 37 mm |
| **PRODUCT WEIGHT** | 0.417 kg |
| **CERTIFICATIONS** | CSA<br>UL Category Control No.: NKCR<br>IEC/EN 60947<br>UL<br>CSA-C22.2 No. 14<br>IEC/EN 60947-5<br>UL 508<br>CE<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>UL File No.: E29184 |
| **GLOBAL CATALOG** | 106828 |
| **PRODUCT TYPE** | Position switch |

## Product specifications

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| **FEATURES** | Forced opening<br>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** | 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-** | Is the panel builder's |

## Resources

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| **CATALOGS** | eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf<br><br>eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-position-switch-declaration-of-conformity-eu251549en.pdf<br><br>eaton-position-switch-declaration-of-conformity-uk251040en.pdf |
| **DRAWINGS** | eaton-position-switches-ls-dimensions.eps |
| **ECAD MODEL** | ETN.106828.edz |
| **INSTALLATION INSTRUCTIONS** | eaton-ls-s-zbz-safety-position-switch-il05208005z.pdf |
| **MCAD MODEL** | 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 |

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| **FREQUENCY ELECTRIC STRENGTH** | 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<br>Damp heat, constant, to IEC 60068-2-78 |
| **ENCLOSURE MATERIAL** | Insulated material<br>Plastic |
| **ENCLOSURE TYPE** | Cuboid |
| **RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V** | 0.8 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** | 173 mm |
| **SENSOR LENGTH** | 39 mm |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **WIDTH SENSOR** | 60 mm |
| **PRODUCT CATEGORY** | Basic devices with magnet-powered interlock (open-circuit principle) |
| **ACTION** | 2021118113756-Mechanical Limit Switches.xlsm-Data |
| **FORCE FOR POSITIVE OPENING - MIN** | 50 N |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4000 V AC |
| **ACTUATING FORCE AT BEGINNING/END OF STROKE** | 25 N/15 N (plug-in/pull-out) |
| **EXPLOSION SAFETY CATEGORY FOR DUST** | None |

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| **EXPLOSION SAFETY CATEGORY FOR GAS** | None |
| **ACTUATOR TYPE** | None |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 70 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **HEAT DISSIPATION CAPACITY PDISS** | 0 W |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 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 (UI)** | 400 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** | 6 A |
| **RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V** | 4 A |
| **MOUNTING POSITION** | As required |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 1 kA |
| **OVERVOLTAGE CATEGORY** | III |
| **CONNECTION TYPE** | Screw terminal |
| **DUTY FACTOR** | 100 % (Magnet) |
| **DEGREE OF PROTECTION** | IP65<br>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 |

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| | 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)<br>1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG)<br><br>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)<br>8 VA at 120 V AC (electromechanical actuation)<br>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<br>2 x (0.5 - 1.5) mm² |
| **TERMINAL CAPACITY (SOLID)** | 2 x (0.75 - 1.5) mm²<br>1 x (0.75 - 2.5) mm² |

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| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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