# Specifications

## Eaton 106788

Eaton Moeller® series LS Position switch, Roller plunger, Complete unit, 1 N/O, 1 NC, Screw terminal, Yellow, Insulated material, -25 - +70 °C, EN 50047 Form C

### General specifications

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| **PRODUCT NAME** | Eaton Moeller® series LS Position switch |
| **CATALOG NUMBER** | 106788 |
| **MODEL CODE** | LS-S11/P |
| **EAN** | 4015081065554 |
| **PRODUCT LENGTH/DEPTH** | 33.5 mm |
| **PRODUCT HEIGHT** | 86 mm |
| **PRODUCT WIDTH** | 31 mm |
| **PRODUCT WEIGHT** | 0.057 kg |
| **CERTIFICATIONS** | CE<br>UL<br>CSA File No.: 012528<br>IEC/EN 60947<br>CSA<br>IEC/EN 60947-5<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>UL Category Control No.: NKCR<br>CSA-C22.2 No. 14<br>UL 508 |
| **GLOBAL CATALOG** | 106788 |

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## Product specifications

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| **TYPE** | • Position switch<br>• Safety position switch |
| **FEATURES** | Forced opening<br>Positive opening |
| **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

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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 |
| CONTROL TRAVEL DIAGRAM | eaton-position-switches-diagram-ls-contact-travel-diagram-011.eps |
| DECLARATIONS OF CONFORMITY | eaton-position-switch-declaration-of-conformity-uk251032en.pdf<br><br>eaton-position-switch-declaration-of-conformity-eu250549en.pdf |
| DRAWINGS | eaton-position-switches-plunger-ls-dimensions-004.eps<br><br>eaton-position-switches-plunger-ls-dimensions-003.eps<br><br>eaton-operating-button-symbol-008.eps |
| ECAD MODEL | ETN.106788.edz |
| INSTALLATION INSTRUCTIONS | IL053001ZU |
| MCAD MODEL | DA-CS-ls_p DA-CD-ls_p |
| SALES NOTES | eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf |
| WIRING DIAGRAMS | eaton-position-switches-contact-ls-wiring-diagram.eps |

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| **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** | 6000 Operations/h |
| **POLLUTION DEGREE** | 3 |
| **ACTUATOR ALIGNMENT** | Roller cam straight |
| **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** | 0.6 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** | 6 A |

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| **CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | |
| **SENSOR HEIGHT** | 61 mm |
| **SENSOR LENGTH** | 33.5 mm |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **WIDTH SENSOR** | 31 mm |
| **PRODUCT CATEGORY** | Roller plunger |
| **ACTION** | 2021118113756-Mechanical Limit Switches.xlsm-Data |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4000 V AC |
| **ENCLOSURE COLOR** | Yellow Cover |
| **ACTUATING FORCE AT BEGINNING/END OF STROKE** | 1.0 N/8.0 N |
| **EXPLOSION SAFETY CATEGORY FOR DUST** | None |
| **EXPLOSION SAFETY CATEGORY FOR GAS** | None |
| **ACTUATOR TYPE** | Rotary lever |
| **ACTUATING TORQUE OF ROTARY DRIVES** | 0.2 Nm |
| **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** | 1 |

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| **AUXILIARY CONTACTS** | |
| **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 |
| **DESIGN** | EN 50047 Form C |
| **MOUNTING POSITION** | As required |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 1 kA |
| **OVERVOLTAGE CATEGORY** | III |
| **CONTROL CIRCUIT RELIABILITY** | 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)<br>1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) |
| **CONNECTION TYPE** | Screw terminal |
| **DEGREE OF PROTECTION** | IP66/IP67<br>NEMA Other |
| **INTERFACE TYPE** | None |
| **SWITCH FUNCTION TYPE** | Slow-action switch |
| **LIFESPAN** | 8,000,000 mechanical Operations |
| **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 |
| **OPERATING SPEED** | Max. 1/1 m/s (with DIN cam, mechanical actuation)<br>For angle of actuation α = 0°/30° |
| **SHORT-CIRCUIT** | Max. 6 A gG/gL, Fuse, |

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| **PROTECTION RATING** | Contacts |
| **TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)** | 1 x (0.5 - 1.5) mm² |
| **TERMINAL CAPACITY (SOLID)** | 1 x (0.5 - 2.5) mm² |

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

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