

# Specifications



## Eaton 106796

Eaton Moeller® series LS Position switch, Rounded plunger, Basic device, not expandable, 1 N/O, 1 NC (late-break), Screw terminal, Yellow, Insulated material, -25 - +70 °C, version A

### General specifications

|                             |                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series LS Position switch                                                                                                                                                  |
| <b>CATALOG NUMBER</b>       | 106796                                                                                                                                                                                    |
| <b>MODEL CODE</b>           | LS-S11DA/F                                                                                                                                                                                |
| <b>EAN</b>                  | 4015081065639                                                                                                                                                                             |
| <b>PRODUCT LENGTH/DEPTH</b> | 33.5 mm                                                                                                                                                                                   |
| <b>PRODUCT HEIGHT</b>       | 76.5 mm                                                                                                                                                                                   |
| <b>PRODUCT WIDTH</b>        | 31 mm                                                                                                                                                                                     |
| <b>PRODUCT WEIGHT</b>       | 0.05 kg                                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | UL<br>CSA File No.: 012528<br>CSA<br>UL Category Control No.: NKCR<br>IEC/EN 60947-5<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14<br>IEC/EN 60947<br>UL File No.: E29184<br>UL 508<br>CE |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                    |
| <b>GLOBAL CATALOG</b>       | 106796                                                                                                                                                                                    |



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## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>                                                                             | <ul style="list-style-type: none"> <li>Position switch</li> <li>Safety position switch</li> </ul>                                |
| <b>FEATURES</b>                                                                         | Forced opening<br>Positive opening                                                                                               |
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |

## Resources

|                            |                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                                                                                                                      |
| CATALOGS                   | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>                                                                                                                                                    |
| CONTROL TRAVEL DIAGRAM     | <a href="#">eaton-position-switches-diagram-ls-contact-travel-diagram.eps</a>                                                                                                                                                                               |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-position-switch-declaration-of-conformity-eu250549en.pdf</a><br><a href="#">eaton-position-switch-declaration-of-conformity-uk251032en.pdf</a>                                                                                            |
| DRAWINGS                   | <a href="#">eaton-position-switches-plunger-ls-dimensions.eps</a><br><a href="#">eaton-position-switches-switch-ls-dimensions.eps</a><br><a href="#">eaton-operating-button-symbol-008.eps</a><br><a href="#">eaton-position-switches-ls-3d-drawing.eps</a> |
| ECAD MODEL                 | <a href="#">ETN.106796.edz</a>                                                                                                                                                                                                                              |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL053001ZU</a>                                                                                                                                                                                                                                  |
| MCAD MODEL                 | <a href="#">DA-CS-ls front</a><br><a href="#">DA-CD-ls front</a>                                                                                                                                                                                            |
| SALES NOTES                | <a href="#">eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf</a>                                                                                                                                                                                   |
| WIRING DIAGRAMS            | <a href="#">eaton-position-switches-contact-ls-wiring-diagram-004.eps</a>                                                                                                                                                                                   |

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                     |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.             |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                         |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                         |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                         |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                         |
| <b>ELECTRIC CONNECTION TYPE</b>                                 | Cable entry metrical                                                           |
| <b>ENCLOSURE MATERIAL FINISHING</b>                             | Other                                                                          |
| <b>OPERATING FREQUENCY</b>                                      | 6000 Operations/h                                                              |
| <b>POLLUTION DEGREE</b>                                         | 3                                                                              |
| <b>ACTUATOR ALIGNMENT</b>                                       | Roller cam straight                                                            |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| <b>ENCLOSURE MATERIAL</b>                                       | Insulated material<br>Plastic                                                  |
| <b>ENCLOSURE TYPE</b>                                           | Cuboid                                                                         |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>           | 0.6 A                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V</b>           | 0.8 A                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>    | 0.3 A                                                                          |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>            | 3 A                                                                            |
| <b>RATED OPERATIONAL</b>                                        | 6 A                                                                            |

|                                                                        |                                                          |
|------------------------------------------------------------------------|----------------------------------------------------------|
| <b>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>                 |                                                          |
| <b>SENSOR HEIGHT</b>                                                   | 61 mm                                                    |
| <b>SENSOR LENGTH</b>                                                   | 33.5 mm                                                  |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b> | 0 W                                                      |
| <b>WIDTH SENSOR</b>                                                    | 31 mm                                                    |
| <b>PRODUCT CATEGORY</b>                                                | Rounded plunger                                          |
| <b>ACTION</b>                                                          | 2020122120328-<br>Mechanical Limit<br>Switches.xlsm-Data |
| <b>RATED IMPULSE<br/>WITHSTAND VOLTAGE<br/>(UIMP)</b>                  | 4000 V AC                                                |
| <b>ENCLOSURE COLOR</b>                                                 | Yellow Cover                                             |
| <b>ACTUATING FORCE AT<br/>BEGINNING/END OF<br/>STROKE</b>              | 1.0 N/8.0 N                                              |
| <b>EXPLOSION SAFETY<br/>CATEGORY FOR DUST</b>                          | None                                                     |
| <b>EXPLOSION SAFETY<br/>CATEGORY FOR GAS</b>                           | None                                                     |
| <b>ACTUATOR TYPE</b>                                                   | Plunger                                                  |
| <b>ACTUATING TORQUE OF<br/>ROTARY DRIVES</b>                           | 0.2 Nm                                                   |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b>                         | 70 °C                                                    |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b>                         | -25 °C                                                   |
| <b>DIAMETER SENSOR</b>                                                 | 0 mm                                                     |
| <b>EQUIPMENT HEAT<br/>DISSIPATION, CURRENT-<br/>DEPENDENT PVID</b>     | 0 W                                                      |
| <b>HEAT DISSIPATION<br/>CAPACITY PDISS</b>                             | 0 W                                                      |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT PVID</b>      | 0.17 W                                                   |
| <b>NUMBER OF CONTACTS<br/>(CHANGE-OVER<br/>CONTACTS)</b>               | 0                                                        |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY CLOSED<br/>CONTACTS)</b>           | 1                                                        |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY OPEN<br/>CONTACTS)</b>             | 1                                                        |
| <b>NUMBER OF SAFETY</b>                                                | 1                                                        |

|                                                                     |                                                                                                                                                                                      |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AUXILIARY CONTACTS</b>                                           |                                                                                                                                                                                      |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                | 400 V                                                                                                                                                                                |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 125 V</b>               | 6 A                                                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b> | 6 A                                                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V</b>                | 6 A                                                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b> | 4 A                                                                                                                                                                                  |
| <b>MOUNTING POSITION</b>                                            | As required                                                                                                                                                                          |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>                 | 1 kA                                                                                                                                                                                 |
| <b>OVERVOLTAGE CATEGORY</b>                                         | III                                                                                                                                                                                  |
| <b>CONTROL CIRCUIT RELIABILITY</b>                                  | 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)<br>1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) |
| <b>CONNECTION TYPE</b>                                              | Screw terminal                                                                                                                                                                       |
| <b>TEMPERATURE RESISTANCE</b>                                       | 100 °C, Contact temperature of roller head                                                                                                                                           |
| <b>DEGREE OF PROTECTION</b>                                         | IP66/IP67<br>NEMA Other                                                                                                                                                              |
| <b>INTERFACE TYPE</b>                                               | None                                                                                                                                                                                 |
| <b>SWITCH FUNCTION TYPE</b>                                         | Slow-action switch                                                                                                                                                                   |
| <b>LIFESPAN</b>                                                     | 8,000,000 mechanical Operations                                                                                                                                                      |
| <b>REPETITION ACCURACY</b>                                          | 0.15 mm<br>(Contacts/switching capacity)                                                                                                                                             |
| <b>SHOCK RESISTANCE</b>                                             | 25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms                                                                                                               |
| <b>SUPPLY FREQUENCY</b>                                             | Max. 400 Hz, Contacts                                                                                                                                                                |
| <b>SUITABLE FOR</b>                                                 | Safety functions                                                                                                                                                                     |
| <b>OPERATING SPEED</b>                                              | Max. 1/0.5 m/s (with DIN cam, mechanical actuation)<br>For angle of actuation $\alpha = 0^\circ/30^\circ$                                                                            |

|                                                  |                                 |
|--------------------------------------------------|---------------------------------|
| <b>SHORT-CIRCUIT PROTECTION RATING</b>           | Max. 6 A gG/gL, Fuse, Contacts  |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b> | 1 x (0.5 - 1.5) mm <sup>2</sup> |
| <b>TERMINAL CAPACITY (SOLID)</b>                 | 1 x (0.5 - 2.5) mm <sup>2</sup> |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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