

# Specifications



Photo is representative

## Eaton 106804

Eaton Moeller® series LS Position switch, Actuating rod, Complete unit, 1 N/O, 1 NC, Snap-action contact - Yes, Screw terminal, Yellow, Insulated material, -25 - +70 °C

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series LS Position switch                                                                                                                                                                                                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 106804                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MODEL CODE</b>           | LS-S11S/RR                                                                                                                                                                                                                                                                                                                                                                          |
| <b>EAN</b>                  | 4015081065714                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 33.5 mm                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PRODUCT HEIGHT</b>       | 140 mm                                                                                                                                                                                                                                                                                                                                                                              |
| <b>PRODUCT WIDTH</b>        | 31 mm                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PRODUCT WEIGHT</b>       | 0.078 kg                                                                                                                                                                                                                                                                                                                                                                            |
| <b>CERTIFICATIONS</b>       | UL Category Control No.: NKCR<br>CSA Class No.: 3211-03<br>UL<br>UL File No.: E29184<br>CE<br>CSA File No.: 012528<br>CSA<br>CSA-C22.2 No. 14<br>IEC/EN 60947<br>UL 508<br>IEC/EN 60947-5                                                                                                                                                                                           |
| <b>CATALOG NOTES</b>        | Using the product in areas exposed to ozone and UV radiation or in sub-zero temperatures in unprotected outdoor environments (e.g. altitudes above 1,000 m, unprotected sunlight) may reduce the degree of protection. The customer / user must validate the overall application accordingly. If applicable, the use of the LS-...-CC (Cold Climate) variants should be considered. |



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## Actuator

|                                                   |             |
|---------------------------------------------------|-------------|
| <b>ACTUATING FORCE AT BEGINNING/END OF STROKE</b> | 1.0 N/8.0 N |
|---------------------------------------------------|-------------|

|                                          |        |
|------------------------------------------|--------|
| <b>ACTUATING TORQUE OF ROTARY DRIVES</b> | 0.2 Nm |
|------------------------------------------|--------|

|                      |               |
|----------------------|---------------|
| <b>ACTUATOR TYPE</b> | Actuating rod |
|----------------------|---------------|

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| <b>OPERATING SPEED</b> | L = 130 mm<br>Max. 1.5 m/s (with DIN cam, mechanical actuation) |
|------------------------|-----------------------------------------------------------------|

## Climatic environmental conditions

|                                            |       |
|--------------------------------------------|-------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 70 °C |
|--------------------------------------------|-------|

|                                            |        |
|--------------------------------------------|--------|
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C |
|--------------------------------------------|--------|

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| <b>CLIMATIC PROOFING</b> | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
|--------------------------|--------------------------------------------------------------------------------|

## Ambient conditions, mechanical

|                          |             |
|--------------------------|-------------|
| <b>MOUNTING POSITION</b> | As required |
|--------------------------|-------------|

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| <b>SHOCK RESISTANCE</b> | 25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms |
|-------------------------|------------------------------------------------------------------------|

## Contacts

|                                    |                                                                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT RELIABILITY</b> | 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) |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                  |   |
|--------------------------------------------------|---|
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b> | 0 |
|--------------------------------------------------|---|

|                                                      |   |
|------------------------------------------------------|---|
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 1 |
|------------------------------------------------------|---|

|                                                    |   |
|----------------------------------------------------|---|
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b> | 1 |
|----------------------------------------------------|---|

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                       |
| <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</b>                                                                  | Does not apply, since the                                                                                                        |

## Electrical rating

|                                                                     |                                |
|---------------------------------------------------------------------|--------------------------------|
| <b>RATED INSULATION VOLTAGE (UI)</b>                                | 400 V                          |
| <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>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>SHORT-CIRCUIT PROTECTION RATING</b>                              | Max. 6 A gG/gL, Fuse, Contacts |
| <b>SUPPLY FREQUENCY</b>                                             | Max. 400 Hz, Contacts          |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>                 | 1 kA                           |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | 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>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0.17 W                                                             |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 6 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

| Features & functions            |                                                           |
|---------------------------------|-----------------------------------------------------------|
| <b>ELECTRIC CONNECTION TYPE</b> | Cable entry metrical                                      |
| <b>ENCLOSURE COLOR</b>          | Yellow Cover                                              |
| <b>ENCLOSURE MATERIAL</b>       | Plastic<br>Insulated material                             |
| <b>FEATURES</b>                 | Positive opening<br>Forced opening<br>Snap-action contact |
| <b>SWITCH FUNCTION TYPE</b>     | Quick-break switch                                        |

| General information                           |                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------|
| <b>CONNECTION TYPE</b>                        | Screw terminal                                                       |
| <b>DEGREE OF PROTECTION</b>                   | IP66/IP67<br>NEMA Other                                              |
| <b>LIFESPAN</b>                               | 8,000,000 mechanical<br>Operations                                   |
| <b>OPERATING FREQUENCY</b>                    | 6000 Operations/h                                                    |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                  |
| <b>POLLUTION DEGREE</b>                       | 3                                                                    |
| <b>PRODUCT CATEGORY</b>                       | Basic units with spring-powered interlock (closed-circuit principle) |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 4000 V AC                                                            |

|                            |                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>REPETITION ACCURACY</b> | 0.15 mm<br>(Contacts/switching capacity)                                                              |
| <b>SUITABLE FOR</b>        | Safety functions                                                                                      |
| <b>TYPE</b>                | <ul style="list-style-type: none"> <li>• Position switch</li> <li>• Safety position switch</li> </ul> |

## Safety

**EXPLOSION SAFETY  
CATEGORY FOR DUST** None

**EXPLOSION SAFETY  
CATEGORY FOR GAS** None

## Terminal capacities

**TERMINAL CAPACITY  
(FLEXIBLE WITH  
FERRULE)** 1 x (0.5 - 1.5) mm<sup>2</sup>

**TERMINAL CAPACITY  
(SOLID)** 1 x (0.5 - 2.5) mm<sup>2</sup>

## Resources

|                            |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                   |
|                            | <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-018.eps</a>                        |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-position-switch-declaration-of-conformity-uk251032en.pdf</a>                           |
|                            | <a href="#">eaton-position-switch-declaration-of-conformity-eu251556en.pdf</a>                           |
| DRAWINGS                   | <a href="#">eaton-position-switches-actuation-ls-dimensions-002.eps</a>                                  |
|                            | <a href="#">eaton-position-switches-actuation-ls-dimensions.eps</a>                                      |
|                            | <a href="#">eaton-operating-button-symbol-008.eps</a>                                                    |
| ECAD MODEL                 | <a href="#">ETN.106804.edz</a>                                                                           |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL053001ZU</a>                                                                               |
| MCAD MODEL                 | <a href="#">eaton-mechanical-limit-switches-mcad-drawings-ls-rr.dwg</a>                                  |
|                            | <a href="#">DA-CS-ls_rr</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.eps</a>                                    |

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



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