

# Specifications



Photo is representative

## Eaton 266139

Eaton Moeller® series LSM Safety position switch, LS(M)-..., Spring-rod actuator, Complete unit, 1 N/O, 1 NC, Snap-action contact - Yes, Yellow, Metal, Cage Clamp, -25 - +70 °C

### General specifications

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>PRODUCT NAME</b> | Eaton Moeller® series<br>LSM Safety position switch |
|---------------------|-----------------------------------------------------|

|                       |        |
|-----------------------|--------|
| <b>CATALOG NUMBER</b> | 266139 |
|-----------------------|--------|

|                   |           |
|-------------------|-----------|
| <b>MODEL CODE</b> | LSM-11S/S |
|-------------------|-----------|

|            |               |
|------------|---------------|
| <b>EAN</b> | 4015082661397 |
|------------|---------------|

|                             |         |
|-----------------------------|---------|
| <b>PRODUCT LENGTH/DEPTH</b> | 33.5 mm |
|-----------------------------|---------|

|                       |        |
|-----------------------|--------|
| <b>PRODUCT HEIGHT</b> | 180 mm |
|-----------------------|--------|

|                      |       |
|----------------------|-------|
| <b>PRODUCT WIDTH</b> | 31 mm |
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|                       |          |
|-----------------------|----------|
| <b>PRODUCT WEIGHT</b> | 0.193 kg |
|-----------------------|----------|

|                       |                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERTIFICATIONS</b> | CSA<br>UL 508<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14<br>CSA File No.: 012528<br>IEC/EN 60947-5<br>UL<br>IEC/EN 60947<br>UL Category Control No.:<br>NKCR<br>UL File No.: E29184<br>CE |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### CATALOG NOTES

- The operating head can be rotated 90° to enable adaptation to the specified approach direction
- Using the product in areas exposed to ozone and UV radiation or in sub-zero temperatures in unprotected outdoor environments (e.g.



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|  |                                                                                                                                                                                                                                                  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| 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 LENGTH</b>                            | 126 mm      |
| <b>ACTUATOR TYPE</b>                              | Spring-rod  |

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

| 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 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>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>       | Metal                |
| <b>FEATURES</b>                 | Snap-action contact  |
| <b>SWITCH FUNCTION TYPE</b>     | Quick-break switch   |

| General information                           |                                 |
|-----------------------------------------------|---------------------------------|
| <b>CONNECTION TYPE</b>                        | Cage Clamp                      |
| <b>DEGREE OF PROTECTION</b>                   | IP66/IP67<br>NEMA Other         |
| <b>LIFESPAN</b>                               | 8,000,000 mechanical Operations |
| <b>OPERATING FREQUENCY</b>                    | 6000 Operations/h               |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                             |
| <b>POLLUTION DEGREE</b>                       | 3                               |
| <b>PRODUCT CATEGORY</b>                       | Spring-rod actuator             |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 4000 V AC                       |
| <b>REPETITION ACCURACY</b>                    | 0.15 mm<br>(Contacts/switching) |

## Safety

|                                               |      |
|-----------------------------------------------|------|
| <b>EXPLOSION SAFETY<br/>CATEGORY FOR DUST</b> | None |
|-----------------------------------------------|------|

|                                              |      |
|----------------------------------------------|------|
| <b>EXPLOSION SAFETY<br/>CATEGORY FOR GAS</b> | None |
|----------------------------------------------|------|

capacity)

## TYPE

Position switch

## Terminal capacities

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

|                                      |                                 |
|--------------------------------------|---------------------------------|
| <b>TERMINAL CAPACITY<br/>(SOLID)</b> | 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-015.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-plunger-ls-dimensions-004.eps</a>                                    |
|                            | <a href="#">eaton-position-switches-spring-rod-ls-dimensions.eps</a>                                     |
|                            | <a href="#">eaton-operating-button-symbol-008.eps</a>                                                    |
| ECAD MODEL                 | <a href="#">ETN.266139.edz</a>                                                                           |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL053001ZU</a>                                                                               |
| MCAD MODEL                 | <a href="#">eaton-mechanical-limit-switches-mcad-drawings-lsm-s.dwg</a>                                  |
|                            | <a href="#">lsm_s.stp</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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