

# Specifications



Photo is representative

## Eaton 216568

Eaton Moeller® series M22 LED element, green, base fixing, 85-264VAC

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 LED element                                                                                                                                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 216568                                                                                                                                                                                                                                                                                                           |
| <b>MODEL CODE</b>           | M22-LEDC230-G                                                                                                                                                                                                                                                                                                    |
| <b>EAN</b>                  | 4015082165680                                                                                                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 38 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT HEIGHT</b>       | 10 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT WIDTH</b>        | 37 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT WEIGHT</b>       | 0.011 kg                                                                                                                                                                                                                                                                                                         |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | IEC 60947-5<br>UL 508<br>CSA Std. C22.2 No. 14-05<br>CSA Std. C22.2 No. 94-91<br>EN 60947-5<br>VDE<br>UL File No.: E29184<br>CE<br>CSA-C22.2 No. 94-91<br>IEC/EN 60947-5<br>CSA-C22.2 No. 14-05<br>CSA File No.: 012528<br>UL Category Control No.: NKCR<br>CSA<br>CSA Class No.: 3211-03<br>UL<br>IEC 60947-5-1 |



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## Climatic environmental conditions

|                                     |       |
|-------------------------------------|-------|
| AMBIENT OPERATING TEMPERATURE - MAX | 70 °C |
|-------------------------------------|-------|

|                                   |       |
|-----------------------------------|-------|
| AMBIENT STORAGE TEMPERATURE - MAX | 80 °C |
|-----------------------------------|-------|

|                                     |        |
|-------------------------------------|--------|
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
|-------------------------------------|--------|

|                                   |       |
|-----------------------------------|-------|
| AMBIENT STORAGE TEMPERATURE - MIN | 40 °C |
|-----------------------------------|-------|

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

## Contacts

|                                  |     |
|----------------------------------|-----|
| FORCE FOR POSITIVE OPENING - MIN | 0 N |
|----------------------------------|-----|

## Communication

|                            |    |
|----------------------------|----|
| CONNECTION TO SMARTWIRE-DT | No |
|----------------------------|----|

## Design verification

|                        |                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 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 | Meets the product |
|----------------------|-------------------|

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>ULTRA-VIOLET (UV) RADIATION</b>                                   | 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 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>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 W                                                                |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 0 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 1 W                                                                |

## Electrical rating

|                   |             |
|-------------------|-------------|
| POWER CONSUMPTION | Max. 0.33 W |
|-------------------|-------------|

|                               |       |
|-------------------------------|-------|
| RATED INSULATION VOLTAGE (UI) | 500 V |
|-------------------------------|-------|

|                                      |       |
|--------------------------------------|-------|
| RATED OPERATIONAL CURRENT (IE) - MAX | 15 mA |
|--------------------------------------|-------|

|                                      |      |
|--------------------------------------|------|
| RATED OPERATIONAL CURRENT (IE) - MIN | 5 mA |
|--------------------------------------|------|

|                                            |       |
|--------------------------------------------|-------|
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 264 V |
|--------------------------------------------|-------|

|                                            |      |
|--------------------------------------------|------|
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MIN | 85 V |
|--------------------------------------------|------|

## General information

|                      |      |
|----------------------|------|
| DEGREE OF PROTECTION | IP20 |
|----------------------|------|

|                      |                                           |
|----------------------|-------------------------------------------|
| LIFESPAN, ELECTRICAL | 100,000 h (at 25°C, according to EN60064) |
|----------------------|-------------------------------------------|

|                  |        |
|------------------|--------|
| OPERATING TORQUE | 0.8 Nm |
|------------------|--------|

|                      |     |
|----------------------|-----|
| OVERVOLTAGE CATEGORY | III |
|----------------------|-----|

|                  |   |
|------------------|---|
| POLLUTION DEGREE | 3 |
|------------------|---|

|                                        |           |
|----------------------------------------|-----------|
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
|----------------------------------------|-----------|

|              |    |
|--------------|----|
| VOLTAGE TYPE | AC |
|--------------|----|

## Mounting details

|                 |             |
|-----------------|-------------|
| CONNECTION TYPE | Base fixing |
|-----------------|-------------|

|                   |             |
|-------------------|-------------|
| MOUNTING POSITION | As required |
|-------------------|-------------|

## Features & functions

|              |                       |
|--------------|-----------------------|
| FITTED WITH: | Light source<br>Diode |
|--------------|-----------------------|

|             |       |
|-------------|-------|
| LIGHT COLOR | Green |
|-------------|-------|

## LED Details

|             |       |
|-------------|-------|
| LIGHT COLOR | Green |
|-------------|-------|

## Terminal capacities

|                           |                            |
|---------------------------|----------------------------|
| TERMINAL CAPACITY (SOLID) | 0.75 - 2.5 mm <sup>2</sup> |
|---------------------------|----------------------------|

|                              |                           |
|------------------------------|---------------------------|
| TERMINAL CAPACITY (STRANDED) | 0.5 - 2.5 mm <sup>2</sup> |
|------------------------------|---------------------------|

## Resources

|                            |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>                                             |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-accessory-declaration-of-conformity-eu251542en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-uk260009en.pdf</a> |
| DRAWINGS                   | <a href="#">eaton-operating-led-m22-led-element-standards.eps</a><br><a href="#">eaton-operating-button-symbol-004.eps</a>                           |
| ECAD MODEL                 | <a href="#">ETN.216568.edz</a>                                                                                                                       |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL04716002Z</a><br><a href="#">eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf</a>                              |
| MCAD MODEL                 | <a href="#">eaton-lampblock-mcad-drawings-led-element-schraube-boden.dwg</a><br><a href="#">DA-CS-led_element_schraube_boden</a>                     |
| PEP ECO-PASSPORT           | <a href="#">eaton-lamp-holder-blocks-pep-eato-00308-v0101-en.pdf</a>                                                                                 |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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