

# Specifications



Photo is representative

## Eaton 216577

Eaton Moeller® series M22 LED element, green, front mount, cage clamp M22-CLED230-G

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 LED element                                                                                                                                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 216577                                                                                                                                                                                                                                                                                                           |
| <b>MODEL CODE</b>           | M22-CLED230-G                                                                                                                                                                                                                                                                                                    |
| <b>EAN</b>                  | 4015082165772                                                                                                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 39 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT HEIGHT</b>       | 39 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT WIDTH</b>        | 10 mm                                                                                                                                                                                                                                                                                                            |
| <b>PRODUCT WEIGHT</b>       | 0.01 kg                                                                                                                                                                                                                                                                                                          |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | UL 508<br>CSA Std. C22.2 No. 94-91<br>IEC 60947-5<br>CSA Std. C22.2 No. 14-05<br>EN 60947-5<br>VDE<br>CSA<br>CSA-C22.2 No. 94-91<br>CSA-C22.2 No. 14-05<br>IEC 60947-5-1<br>UL<br>CE<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>UL File No.: E29184<br>IEC/EN 60947-5<br>UL Category Control No.: NKCR |
| <b>CATALOG NOTES</b>        | Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany                                                                                                                                                                                                                                 |

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

## 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   | Front fixing |
| MOUNTING POSITION | As required  |

| Features & functions |                       |
|----------------------|-----------------------|
| FITTED WITH:         | Diode<br>Light source |
| LIGHT COLOR          | Green                 |

| LED Details |       |
|-------------|-------|
| LIGHT COLOR | Green |

| Terminal capacities          |                |
|------------------------------|----------------|
| TERMINAL CAPACITY (SOLID)    | 0.75 - 2.5 mm² |
| TERMINAL CAPACITY (STRANDED) | 0.5 - 2.5 mm²  |

## 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-uk260009en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-eu251542en.pdf</a>                                                   |
| DRAWINGS                   | <a href="#">eaton-operating-actuation-m22-led-element-dimensions.eps</a><br><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.216577.edz</a>                                                                                                                                                                         |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf</a><br><a href="#">IL04716002Z</a>                                                                                |
| MCAD MODEL                 | <a href="#">led element cage front.stp</a><br><a href="#">eaton-lampblock-mcad-drawings-led-element-cage-front.dwg</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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