

# Specifications



## Eaton 216878

Eaton Moeller® series M22 Emergency stop/emergency switching off pushbutton, RMQ-Titan, Mushroom-shaped, 38 mm, Illuminated with LED element, Pull-to-release function, Red, yellow, RAL 3000

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 emergency stop/emergency switching off pushbutton                                                                                                                                                                                                                                                                    |
| <b>CATALOG NUMBER</b>       | 216878                                                                                                                                                                                                                                                                                                                                         |
| <b>MODEL CODE</b>           | M22-PVL                                                                                                                                                                                                                                                                                                                                        |
| <b>EAN</b>                  | 4015082168780                                                                                                                                                                                                                                                                                                                                  |
| <b>PRODUCT LENGTH/DEPTH</b> | 38 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>       | 70 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 38 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 0.039 kg                                                                                                                                                                                                                                                                                                                                       |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                                                      |
| <b>CERTIFICATIONS</b>       | CSA Std. C22.2 No. 14-05<br>UL 508<br>CSA Std. C22.2 No. 94-91<br>EN 60947-5<br>IEC 60947-5<br>VDE<br>UL<br>IEC/EN 60947<br>UL Category Control No.: NKCR<br>CSA<br>IEC/EN 60947-5<br>UL File No.: E29184<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 14-05<br>CSA-C22.2 No. 94-91<br>VDE 0660<br>CE<br>CSA File No.: 012528<br>DNV<br>GL<br>LR |
| <b>CATALOG NOTES</b>        | Max. Configuration: 4 x M22-(C)K01, ...10 or 2 x                                                                                                                                                                                                                                                                                               |



Powering Business Worldwide

| Actuator          |                                 |
|-------------------|---------------------------------|
| ACTUATING FORCE   | 50 N                            |
| ACTUATOR COLOR    | Red                             |
| ACTUATOR DIAMETER | 38 mm                           |
| ACTUATOR FUNCTION | Switching function latching     |
|                   | Pull-to-release                 |
| COLOR             | Red                             |
| DESIGN            | Mushroom-shaped<br>Classical    |
| ILLUMINATION      | Illuminated with LED<br>element |
| UNLOCKING METHOD  | Pull-release                    |

| Climatic environmental conditions      |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| AMBIENT OPERATING<br>TEMPERATURE - MAX | 70 °C                                                                                |
| AMBIENT STORAGE<br>TEMPERATURE - MAX   | 80 °C                                                                                |
| AMBIENT OPERATING<br>TEMPERATURE - MIN | -25 °C                                                                               |
| AMBIENT STORAGE<br>TEMPERATURE - MIN   | 40 °C                                                                                |
| CLIMATIC PROOFING                      | Damp heat, cyclic, to IEC<br>60068-2-30<br>Damp heat, constant, to<br>IEC 60068-2-78 |

|                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| M22-(C)K02, ...20, ...11 and<br>1 x M22-(F)LED... - When<br>using M22-PVL... with 1 x<br>M22-K01SMC10 (single<br>channel), article M22-<br>XSMC (order no.: 173030)<br>is required. Order this<br>item separately. |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| Contacts                            |     |
|-------------------------------------|-----|
| FORCE FOR POSITIVE<br>OPENING - MIN | 0 N |

| Communication                 |    |
|-------------------------------|----|
| CONNECTION TO<br>SMARTWIRE-DT | No |

## Design verification

|                                                                                         |                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | Not applicable.                                                                                          |
| <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>                                 | Please enquire                                                                                           |
| <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.                                       |

## Features & functions

|                       |                                               |
|-----------------------|-----------------------------------------------|
| <b>BASE COLOR</b>     | Yellow                                        |
| <b>BEZEL COLOR</b>    | Other                                         |
| <b>BEZEL MATERIAL</b> | Other                                         |
| <b>DESIGN</b>         | Mushroom-shaped<br>Classical                  |
| <b>FEATURES</b>       | Tamper-proof (according to ISO 13850, EN 418) |
| <b>RAL-NUMBER</b>     | 3000                                          |

|                                                                      |                                        |
|----------------------------------------------------------------------|----------------------------------------|
| <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>            | 0 W                                    |

## General information

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| <b>DEGREE OF PROTECTION</b> | IP66<br>NEMA 4X, 13                                 |
| <b>LIFESPAN, MECHANICAL</b> | 100,000 Operations                                  |
| <b>MOUNTING POSITION</b>    | As required                                         |
| <b>OPENING DIAMETER</b>     | 22.5 mm                                             |
| <b>OPERATING FREQUENCY</b>  | 600 Operations/h                                    |
| <b>PRODUCT CATEGORY</b>     | RMQ-Titan                                           |
| <b>SIZE</b>                 | Front dimensions: 35 mm                             |
| <b>SUITABLE FOR</b>         | Emergency stop<br>Illumination                      |
| <b>TYPE</b>                 | Controlled stop<br>pushbutton/emergency-stop button |

## Resources

|                            |                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>                                    |
| CERTIFICATION REPORTS      | <a href="#">000Z425</a><br><a href="#">eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-eu251534en.pdf</a> |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-emergency-stop-emergency-switching-off-pushbutton-declaration-of-conformity-uk251132en.pdf</a>                            |
| DRAWINGS                   | <a href="#">eaton-operating-emergency-m22-dimensions-002.eps</a>                                                                            |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-operating-emergency-m22-dimensions.eps</a><br><br><a href="#">eaton-operating-button-m22-symbol-006.eps</a><br><br><a href="#">eaton-operating-emergency-m22-3d-drawing-004.eps</a><br><br><a href="#">eaton-general-m22-standards.eps</a><br><br><a href="#">eaton-general-approval-m22-symbol.eps</a><br><br><a href="#">eaton-operating-button-symbol-006.eps</a><br><br><a href="#">eaton-general-m22-symbol.eps</a> |
| ECAD MODEL                | <a href="#">ETN.216878.edz</a>                                                                                                                                                                                                                                                                                                                                                                                                             |
| INSTALLATION INSTRUCTIONS | <a href="#">IL04716005Z.pdf</a><br><br><a href="#">IL04716002Z</a>                                                                                                                                                                                                                                                                                                                                                                         |
| MCAD MODEL                | <a href="#">DA-CS-not_aus</a><br><br><a href="#">eaton-pushbuttons-mcad-drawings-not-aus.dwg</a>                                                                                                                                                                                                                                                                                                                                           |
| PEP ECO-PASSPORT          | <a href="#">eaton-front-element-for-mushroom-pushbuttons-pep-eato-00328-v0101-en.pdf</a>                                                                                                                                                                                                                                                                                                                                                   |

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



**Eaton Corporation plc** Eaton House  
 30 Pembroke Road  
 Dublin 4, Ireland  
 Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

