

# Specifications



Photo is representative

## Eaton 216643

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Extended, momentary, green, Blank, Bezel: titanium

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 pushbutton                                                                                                                                                                                                                                                                                                           |
| <b>CATALOG NUMBER</b>       | 216643                                                                                                                                                                                                                                                                                                                                         |
| <b>MODEL CODE</b>           | M22-DH-G                                                                                                                                                                                                                                                                                                                                       |
| <b>EAN</b>                  | 4015082166434                                                                                                                                                                                                                                                                                                                                  |
| <b>PRODUCT LENGTH/DEPTH</b> | 30 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>       | 35 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 30 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 0.012 kg                                                                                                                                                                                                                                                                                                                                       |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                                                      |
| <b>CERTIFICATIONS</b>       | CSA Std. C22.2 No. 14-05<br>EN 60947-5<br>IEC 60947-5<br>UL 508<br>CSA Std. C22.2 No. 94-91<br>VDE<br>UL File No.: E29184<br>IEC/EN 60947<br>UL Category Control No.: NKCR<br>CE<br>CSA<br>CSA-C22.2 No. 94-91<br>UL<br>VDE 0660<br>IEC/EN 60947-5<br>CSA Class No.: 3211-03<br>CSA File No.: 012528<br>CSA-C22.2 No. 14-05<br>DNV<br>GL<br>LR |
| <b>GLOBAL CATALOG</b>       | 216643                                                                                                                                                                                                                                                                                                                                         |
| <b>PRODUCT TYPE</b>         | Pushbutton                                                                                                                                                                                                                                                                                                                                     |



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## Product specifications

|                                                                                         |                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>                                                                             | Pushbutton actuator                                                                                      |
| <b>ACTUATOR COLOR</b>                                                                   | Green                                                                                                    |
| <b>ACTUATOR FUNCTION</b>                                                                | Momentary<br>Spring-return                                                                               |
| <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</b>                                                                  | Does not apply, since the                                                                                |

## Resources

|                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
|                               | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                       |
| CATALOGS                      | <a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>     |
| DECLARATIONS OF CONFORMITY    | <a href="#">eaton-double-actuator-pushbutton-declaration-of-conformity-eu251536en.pdf</a>                    |
|                               | <a href="#">eaton-operating-pushbutton-m22-dimensions.eps</a>                                                |
|                               | <a href="#">eaton-operating-pushbutton-m22-dimensions-005.eps</a>                                            |
|                               | <a href="#">eaton-operating-samrtwire-m22-3d-drawing-002.eps</a>                                             |
| DRAWINGS                      | <a href="#">eaton-general-approval-m22-symbol.eps</a>                                                        |
|                               | <a href="#">eaton-operating-button-symbol-004.eps</a>                                                        |
|                               | <a href="#">eaton-general-m22-symbol.eps</a>                                                                 |
|                               | <a href="#">eaton-general-m22-standards.eps</a>                                                              |
| ECAD MODEL                    | <a href="#">ETN.216643.edz</a>                                                                               |
| INSTALLATION INSTRUCTIONS     | <a href="#">IL04716002Z</a>                                                                                  |
| MCAD MODEL                    | <a href="#">DA-CS-drucktaste_hoch</a><br><a href="#">eaton-pushbuttons-mcad-drawings-drucktaste-hoch.dwg</a> |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 216643</a>                                                           |

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <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>FITTED WITH:</b>                                             | Front ring                                                                     |
| <b>OPERATING FREQUENCY</b>                                      | 3600 Operations/h                                                              |
| <b>BUTTON COLOR</b>                                             | Green                                                                          |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
| <b>CONNECTION TO SMARTWIRE-DT</b>                               | Yes<br>With SWD-RMQ connections                                                |
| <b>ACTUATING FORCE</b>                                          | 5 N                                                                            |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>                      | 70 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>                      | -25 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>                        | 80 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>                        | 40 °C                                                                          |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>       | 0 W                                                                            |
| <b>FORCE FOR POSITIVE OPENING - MIN</b>                         | 0 N                                                                            |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                          | 0 W                                                                            |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>        | 0 W                                                                            |
| <b>NUMBER OF COMMAND POSITIONS</b>                              | 1                                                                              |
| <b>OPENING DIAMETER</b>                                         | 22.5 mm                                                                        |

|                                                                              |                                                                                                                                    |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 0 A                                                                                                                                |
| <b>BEZEL COLOR</b>                                                           | Titanium                                                                                                                           |
| <b>SHOCK RESISTANCE</b>                                                      | Mechanical, According to<br>IEC/EN 60068-2-27<br>30 g, Mechanical,<br>According to IEC/EN<br>60068-2-27, Sinusoidal<br>shock 11 ms |
| <b>BEZEL MATERIAL</b>                                                        | Plastic                                                                                                                            |
| <b>DESIGN</b>                                                                | Extended<br>Classical                                                                                                              |
| <b>MOUNTING POSITION</b>                                                     | As required                                                                                                                        |
| <b>DEGREE OF PROTECTION</b>                                                  | IP69K<br>NEMA 12<br>NEMA 3R<br>NEMA 4X<br>NEMA 13<br>IP67<br>IP66                                                                  |
| <b>DEGREE OF PROTECTION<br/>(FRONT SIDE)</b>                                 | IP67/IP69K<br>NEMA 4X                                                                                                              |
| <b>INSCRIPTION</b>                                                           | Blank                                                                                                                              |
| <b>FRONT ELEMENT TYPE</b>                                                    | High                                                                                                                               |
| <b>LENS TYPE</b>                                                             | Round                                                                                                                              |
| <b>LIFESPAN, MECHANICAL</b>                                                  | 5,000,000 Operations                                                                                                               |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b>       | 0 W                                                                                                                                |
| <b>PRODUCT CATEGORY</b>                                                      | RMQ-Titan                                                                                                                          |
| <b>SIZE</b>                                                                  | Front dimensions: 22 x 22<br>mm                                                                                                    |

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|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| <b>DATE:</b>           |



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