

# 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                                                                                                                                                                                                                                                                                                                                         |



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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.                                       |

## Resources

### CATALOGS

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

### DECLARATIONS OF CONFORMITY

[DA-DC-00004135.pdf](#)

[DA-DC-00004157.pdf](#)

[eaton-operating-pushbutton-m22-dimensions.eps](#)

[eaton-operating-pushbutton-m22-dimensions-005.eps](#)

[eaton-general-m22-standards.eps](#)

### DRAWINGS

[eaton-operating-samrtwire-m22-3d-drawing-002.eps](#)

[eaton-operating-button-symbol-004.eps](#)

[eaton-general-m22-symbol.eps](#)

[eaton-general-approval-m22-symbol.eps](#)

### ECAD MODEL

[ETN.216643.edz](#)

### FLYERS

[eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf](#)

### INSTALLATION INSTRUCTIONS

[IL04716002Z](#)

### INSTALLATION VIDEOS

[RMQ Flat Design](#)

### MCAD MODEL

[DA-CS-drucktaste\\_hoch](#)

[DA-CD-drucktaste\\_hoch](#)

[RMQ small E-Stop emergency-stop button](#)

### MULTIMEDIA

[MCI Multicolor Light Indicator M22 with SmartWire-DT](#)

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <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>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</b>                                     | 0 W                                                                            |

|                                      |                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------|
|                                      | <a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMO multi color indicator</a> |
|                                      | <a href="#">MCI MultiColor Light Indicator RMO compact solution</a>                                |
| <b>SALES NOTES</b>                   | <a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>                                |
|                                      | <a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf</a>               |
|                                      | <a href="#">eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf</a>                       |
|                                      | <a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>                                  |
| <b>SPECIFICATIONS AND DATASHEETS</b> | <a href="#">Eaton Specification Sheet - 216643</a>                                                 |

|                                                                      |                                                                                                                        |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>POLE, CURRENT-DEPENDENT PVID</b>                                  |                                                                                                                        |
| <b>NUMBER OF COMMAND POSITIONS</b>                                   | 1                                                                                                                      |
| <b>OPENING DIAMETER</b>                                              | 22.5 mm                                                                                                                |
| <b>OPENING HEIGHT</b>                                                | 0 mm                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 0 A                                                                                                                    |
| <b>BEZEL COLOR</b>                                                   | Titanium                                                                                                               |
| <b>SHOCK RESISTANCE</b>                                              | Mechanical, According to IEC/EN 60068-2-27<br>30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal 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 (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 DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                                                                    |
| <b>WIDTH OPENING</b>                                                 | 0 mm                                                                                                                   |
| <b>PRODUCT CATEGORY</b>                                              | RMQ-Titan                                                                                                              |
| <b>SIZE</b>                                                          | Front dimensions: 22 x 22 mm                                                                                           |

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



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