

# Specifications



Photo is representative



## Eaton 216628

Eaton Moeller® series M22 Pushbutton,  
RMQ-Titan, Flat, maintained, red, inscribed,  
Bezel: titanium

### General specifications

|                                 |                                                                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>M22 pushbutton                                                                                                                                                                                                               |
| <b>CATALOG NUMBER</b>           | 216628                                                                                                                                                                                                                                                |
| <b>MODEL CODE</b>               | M22-DR-R-X0                                                                                                                                                                                                                                           |
| <b>EAN</b>                      | 4015082166281                                                                                                                                                                                                                                         |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 30 mm                                                                                                                                                                                                                                                 |
| <b>PRODUCT HEIGHT</b>           | 30 mm                                                                                                                                                                                                                                                 |
| <b>PRODUCT WIDTH</b>            | 30 mm                                                                                                                                                                                                                                                 |
| <b>PRODUCT WEIGHT</b>           | 0.011 kg                                                                                                                                                                                                                                              |
| <b>CERTIFICATIONS</b>           | CSA Class No.: 3211-03<br>CSA File No.: 012528<br>IEC/EN 60947-5<br>UL 508<br>UL Category Control No.:<br>NKCR<br>CSA-C22.2 No. 14-05<br>UL File No.: E29184<br>CE<br>UL<br>IEC/EN 60947<br>CSA-C22.2 No. 94-91<br>VDE 0660<br>CSA<br>DNV<br>GL<br>LR |
| <b>GLOBAL CATALOG</b>           | 216628                                                                                                                                                                                                                                                |
| <b>PRODUCT TYPE</b>             | Pushbutton                                                                                                                                                                                                                                            |

## Product specifications

|                                                                                         |                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>TYPE</b>                                                                             | Pushbutton actuator                                                                                      |
| <b>ACTUATOR COLOR</b>                                                                   | Red                                                                                                      |
| <b>FEATURES</b>                                                                         | Labelled                                                                                                 |
| <b>ACTUATOR FUNCTION</b>                                                                | Maintained<br>Switching function latching                                                                |
| <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.                                                               |

## Resources

### CATALOGS

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

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

### DRAWINGS

[eaton-operating-pushbutton-m22-dimensions-003.eps](#)

[eaton-operating-actuation-m22-dimensions-002.eps](#)

[eaton-operating-pushbutton-m22-dimensions-004.eps](#)

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

116C079

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

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

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

### ECAD MODEL

[ETN.216628.edz](#)

### INSTALLATION INSTRUCTIONS

[IL04716002Z](#)

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

### MCAD MODEL

[eaton-pushbuttons-mcad-drawings-drucktaste-flach.dwg](#)

### SPECIFICATIONS AND DATASHEETS

[Eaton Specification Sheet - 216628](#)

|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| <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>                                      | 1800 Operations/h                                                              |
| <b>CLIMATIC PROOFING</b>                                        | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| <b>CONNECTION TO SMARTWIRE-DT</b>                               | With SWD-RMQ connections<br>Yes                                                |
| <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</b>                                        | 0 A                                                                            |

|                                                                        |                                                                                                                                    |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>                 |                                                                                                                                    |
| <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>                                                          | Flat<br>Classical                                                                                                                  |
| <b>MOUNTING POSITION</b>                                               | As required                                                                                                                        |
| <b>DEGREE OF PROTECTION</b>                                            | IP66<br>NEMA 3R<br>NEMA 12<br>NEMA 13<br>NEMA 4X<br>IP67<br>IP69K                                                                  |
| <b>DEGREE OF PROTECTION<br/>(FRONT SIDE)</b>                           | IP67/IP69K<br>NEMA 4X                                                                                                              |
| <b>INSCRIPTION</b>                                                     | Inscribed                                                                                                                          |
| <b>FRONT ELEMENT TYPE</b>                                              | Flat                                                                                                                               |
| <b>FUNCTIONS</b>                                                       | Stay-put/spring-return<br>function can be changed<br>on device                                                                     |
| <b>LENS TYPE</b>                                                       | Round                                                                                                                              |
| <b>LIFESPAN, MECHANICAL</b>                                            | 1,000,000 Operations (AC<br>operated)                                                                                              |
| <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                                                                                                    |

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



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

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