

# Specifications



## Eaton 216521

Eaton Moeller® series M22 Pushbutton, RMQ-Titan, Enclosure, momentary, 1 NC, 1 N/O, red, inscribed, Bezel: titanium

### General specifications

|                             |                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series M22 assembled pushbutton                                                                                                                                                           |
| <b>CATALOG NUMBER</b>       | 216521                                                                                                                                                                                                   |
| <b>MODEL CODE</b>           | M22-D-R-X0/KC11/I                                                                                                                                                                                        |
| <b>EAN</b>                  | 4015082165215                                                                                                                                                                                            |
| <b>PRODUCT LENGTH/DEPTH</b> | 70 mm                                                                                                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 70 mm                                                                                                                                                                                                    |
| <b>PRODUCT WIDTH</b>        | 72 mm                                                                                                                                                                                                    |
| <b>PRODUCT WEIGHT</b>       | 0.185 kg                                                                                                                                                                                                 |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947<br>VDE 0660<br>CSA<br>CSA Class No.: 3211-03<br>CSA-C22.2 No. 94-91<br>UL<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947-5<br>UL Category Control No.: NKCR<br>CSA File No.: 012528<br>CE<br>UL 508 |
| <b>CATALOG NOTES</b>        | Contacts with safety function, by positive opening to IEC/EN 60947-5-1                                                                                                                                   |

## Actuator

|                                                        |                                                                                                                                             |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| ACTUATING FORCE                                        | 5 N                                                                                                                                         |
| ACTUATOR COLOR                                         | Red                                                                                                                                         |
| ACTUATOR FUNCTION                                      | Momentary                                                                                                                                   |
| ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1) | 4.8 mm                                                                                                                                      |
| BEZEL COLOR                                            | Titanium                                                                                                                                    |
| DESIGN                                                 | Enclosure                                                                                                                                   |
| ENCLOSURE COLOR                                        | Gray                                                                                                                                        |
| ENCLOSURE MATERIAL                                     | Plastic                                                                                                                                     |
| INSCRIPTION                                            | Inscribed                                                                                                                                   |
| KNOB TRAVEL                                            | 5.7 mm                                                                                                                                      |
| KNOCKOUTS                                              | 2 x M16 (cable entry knockouts at the base)<br>1 x M20 (cable entry knockout at the side)<br>2 x M25/20 (cable entry knockouts at the side) |
| NUMBER OF COMMAND POSITIONS                            | 1                                                                                                                                           |
| NUMBER OF LOCATIONS                                    | 1                                                                                                                                           |
| RAL-NUMBER                                             | 7035                                                                                                                                        |

## Communication

|                            |    |
|----------------------------|----|
| CONNECTION TO SMARTWIRE-DT | No |
|----------------------------|----|

## Climatic environmental conditions

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

## 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            | Meets the product                                                                                                                |

|                                                                                         |                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>THERMAL STABILITY OF ENCLOSURES</b>                                                  | 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. |
| <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</b>                                                             | 0.11 W                                                             |

## Electrical rating

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 50  
HZ - MAX** 500 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 50  
HZ - MIN** 115 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 60  
HZ - MAX** 500 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 60  
HZ - MIN** 115 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT DC -  
MAX** 220 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT DC -  
MIN** 24 V

## Short-circuit rating

**RATED CONDITIONAL  
SHORT-CIRCUIT CURRENT  
(IQ)** 1 kA

## POLE, CURRENT- DEPENDENT PVID

**RATED OPERATIONAL  
CURRENT FOR SPECIFIED  
HEAT DISSIPATION (IN)** 6 A

**STATIC HEAT  
DISSIPATION, NON-  
CURRENT-DEPENDENT  
PVS** 0 W

## General information

**DEGREE OF PROTECTION** IP67/IP69K  
NEMA 4X, 13

**LIFESPAN** 1,000,000 mechanical  
Operations

**MOUNTING POSITION** As required

**OPERATING FREQUENCY** 1800 Operations/h

**PRODUCT CATEGORY** RMQ-Titan

**SIZE** Front dimensions: 22 x 22  
mm

**TYPE** Pushbutton actuator

## Resources

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

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

DECLARATIONS OF CONFORMITY [eaton-double-actuator-pushbutton-declaration-of-conformity-eu251536en.pdf](#)

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

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

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

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
|                           | <a href="#">116C079</a>                                                                              |
|                           | <a href="#">eaton-general-approval-m22-symbol.eps</a>                                                |
|                           | <a href="#">eaton-operating-button-symbol-007.eps</a>                                                |
| ECAD MODEL                | <a href="#">DA-CE-ETN.M22-D-R-X0_KC11_I</a>                                                          |
| INSTALLATION INSTRUCTIONS | <a href="#">IL04716003Z</a> <a href="#">IL04716002Z</a>                                              |
| MCAD MODEL                | <a href="#">eaton-enclosure-mcad-drawings-bg-d-aufbaug.dwg</a><br><a href="#">DA-CS-bg_d_aufbaug</a> |
| WIRING DIAGRAMS           | <a href="#">eaton-operating-contact-m22-pushbutton-wiring-diagram.eps</a>                            |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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

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