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# Eaton 216649

Catalog Number: 216649

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

### General specifications



| Product Name                         | Catalog Number       |
|--------------------------------------|----------------------|
| Eaton Moeller® series M22 Pushbutton | 216649               |
| EAN                                  | Product Length/Depth |
| 4015082166496                        | 30 mm                |
| Product Height                       | Product Width        |
| 35 mm                                | 30 mm                |
| Product Weight                       | Compliances          |
| 0.012 kg                             | CE Marked            |

### Certifications

EN 60947-5  
CSA Std. C22.2 No. 94-91  
UL 508  
IEC 60947-5  
CSA Std. C22.2 No. 14-05  
VDE  
CE  
VDE 0660  
CSA-C22.2 No. 14-05  
CSA File No.: 012528  
CSA-C22.2 No. 94-91  
IEC/EN 60947  
UL Category Control No.: NKCR  
CSA Class No.: 3211-03  
IEC/EN 60947-5  
UL  
CSA  
UL File No.: E29184  
DNV  
GL

## Features & Functions

### Bezel color

Titanium

### Bezel material

Plastic

### Design

Extended

Classical

### Fitted with:

Front ring

### Inscription

Blank

## General

### Degree of protection

IP69K

NEMA 13

NEMA 4X

IP67

NEMA 3R

IP66

NEMA 12

### Degree of protection (front side)

NEMA 4X

IP67/IP69K

### Lifespan, mechanical

5,000,000 Operations

### Opening diameter

22.5 mm

### Operating frequency

3600 Operations/h

### Product category

RMQ-Titan

### Size

Front dimensions: 22 x 22 mm

### Type

Pushbutton actuator

## Ambient conditions, mechanical

### Mounting position

As required

### Shock resistance

Mechanical, According to IEC/EN 60068-2-27

30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms

## Climatic environmental conditions

### Ambient operating temperature - min

-25 °C

### Ambient operating temperature - max

70 °C

### Ambient storage temperature - min

40 °C

### Ambient storage temperature - max

80 °C

### Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

## Communication

Connection to SmartWire-DT

With SWD-RMQ connections

Yes

## Actuator

Actuating force

5 N

Actuator color

Blue

Actuator function

Momentary

Spring-return

## Contacts

Force for positive opening - min

0 N

## Design verification

Equipment heat dissipation, current-dependent P<sub>vid</sub>

0 W

Heat dissipation capacity P<sub>diss</sub>

0 W

Heat dissipation per pole, current-dependent P<sub>vid</sub>

0 W

Rated operational current for specified heat dissipation (I<sub>n</sub>)

0 A

Static heat dissipation, non-current-dependent P<sub>vs</sub>

0 W

### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

### 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

### 10.2.4 Resistance to ultra-violet (UV) radiation

Please enquire

### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be

evaluated.

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

#### 10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### 10.8 Connections for external conductors

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### 10.10 Temperature rise

Not applicable.

#### 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.

## Resources

### Catalogs

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

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

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

### Declarations of conformity

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

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

### Drawings

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

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

[eaton-operating-button-symbol-003.eps](#)

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

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

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

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

### eCAD model

[ETN.216649.edz](#)

### Installation instructions

[IL04716002Z](#)

### Installation videos

[RMQ Flat Design](#)

### mCAD model

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

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

### Multimedia

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

[MCI MultiColor Light Indicator RMQ compact solution](#)

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator](#)

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

### Sales notes

[eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf](#)

[eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf](#)

[eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf](#)

[eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf](#)

System overview

Pilot devices - selection aid



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