Specifications

Eaton 230961

Catalog Number: 230961

Eaton Moeller® series M22 Illuminated pushbutton actuator, RMQ-Titan, Guard-ring, momentary, Without button plate, Bezel: titanium



General specifications

Product Name
Eaton Moeller® series M22 Illuminated pushbutton actuator

Catalog Number
230961

EAN
4015082309619

Product Length/Depth
30 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.013 kg

Compliances
CE Marked

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

Powering Business Worldwide

Features & Functions

Bezel color
Titanium

Bezel material
Plastic

Color
None

Design
Guard-ring
Classical

Fitted with:
Front ring

Material
Titanium front ring

General

Degree of protection
IP69K
IP66
NEMA 3R
NEMA 4X
NEMA 13
IP67
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 diameter: 29.7 mm

Suitable for
Illumination

Type
Illuminated pushbutton actuator

Ambient conditions, mechanical

Mounting position
As required

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

Climatic environmental conditions

Ambient operating temperature - min
-25 °C

Ambient operating temperature - max
70 °C

Climatic proofing
Damp heat, cyclic, to IEC 60068-2-30
Damp heat, constant, to IEC 60068-2-78

Communication

Actuator

Connection to SmartWire-DT

With SWD-RMQ connections

Yes

Actuating force

5 N

Actuator color

Without button plate

Actuator function

Spring-return

Momentary

Contacts

Force for positive opening - min

0 N

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Rated operational current for specified heat dissipation (In)

0 A

Static heat dissipation, non-current-dependent Pvs

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-002.eps

eaton-operating-pushbutton-m22-dimensions-006.eps

eaton-general-approval-m22-symbol.eps

eaton-general-m22-standards.eps

eaton-general-m22-symbol.eps

eCAD model

ETN.230961.edz

Installation instructions

IL04716002Z

Installation videos

RMQ Flat Design

mCAD model

drucktaste_kragenring_flach.stp

drucktaste_kragenring_flach

Multimedia

easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator

RMQ small E-Stop emergency-stop button

MCI MultiColor Light Indicator RMQ compact solution

MCI Multicolor Light Indicator M22 with SmartWire-DT

Sales notes

eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf

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

System overview

Pilot devices - selection aid



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