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Powering Business Worldwide

M22-I3-M1 - Housing, Pushbutton actuators, Enclosure, momentary, 3 NC, 3 N/O, Screw connection, Number of locations 3, Grey, inscribed, Bezel: titanium



216532 M22-I3-M1

[Overview](#) [Specifications](#) [Resources](#)



## 216532 M22-I3-M1

Housing, Pushbutton actuators, Enclosure, momentary, 3 NC, 3 N/O, Screw connection, Number of locations 3, Grey, inscribed, Bezel: titanium

Alternate Catalog No.  
EL-Nummer (Norway)

M22-I3-M1Q  
4355303

Housing, Product range: RMQ-Titan, Complete unit, Design: Enclosure, momentary, Connection type: Screw connection, Number of locations: 3 Qty., Colour Enclosure covers: Grey, Colour RAL Value: RAL 7035, Degree of Protection: IP66, IP67, IP69K, Connection to SmartWire-DT: no, Contacts NC= Normally closed: 3 NC, Contacts N/O= Normally open: 3 N/O, Contacts Notes = safety function, by positive opening to IEC/EN 60947-5-1, Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1: mm4.8, Maximum travel: mm5.7, Minimum force for positive opening: N 15, Front dimensions: 153 x 80, Standards: IEC/EN 60947, VDE 0660, Mounting position: As required

• [Delivery program](#)

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Design verification as per IEC/EN  
61439

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### Delivery program

Product range

RMQ-Titan

Basic function

Pushbutton actuators

Pushbutton actuators

Single unit/Complete unit

Complete unit

Design

Enclosure

momentary

Connection type

Screw connection

Number of locations

3 Qty.

Colour

Enclosure covers

Grey

RAL Value

RAL 7035

Button plate

button plate

green, red, green

Button plate

inscribed

Degree of Protection

IP66, IP67, IP69

Front ring

Bezel: titanium

Connection to SmartWire-DT

no

Contacts

NC= Normally closed

3 NC<sup>Ⓢ</sup>

NO= Normally open

3 NO

Notes

<sup>Ⓢ</sup> = safety function, by positive opening to IEC/EN 60947-5-1

Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1

[mm]

4.8

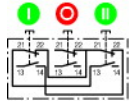
Maximum travel [mm]

5.7

Minimum force for positive opening [N]

15

Contact sequence



Front dimensions

153 x 80

## Technical data

General

Standards

IEC/EN 60947

VDE 0660

Lifespan, mechanical [Operations]

$> 5 \times 10^6$

Operating frequency [Operations/h]

3600

Actuating force

5 n

Climatic proofing

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

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

Degree of Protection

IP66, IP67, IP69

Ambient temperatureOpen

-25 - +70 °C

Mounting position

As required

Mechanical shock resistance

30

Shock duration 11 ms

Sinusoidal

according to IEC 60068-2-27 g

Cable entry knockoutsBase

2 x 20 Quantity x M..

Cable entry knockoutsSides

2 x 20

2 x 25/20 Quantity x M..

shipping classification

DNV

GL

LR



DNV

Contacts

Rated conditional short-circuit current [ $I_{cs}$ ]

1 kA

## Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [ $I_n$ ]

6 A

Heat dissipation per pole, current-dependent [ $P_{vid}$ ]

0.11 W

Equipment heat dissipation, current-dependent [ $P_{vid}$ ]

0 W

Static heat dissipation, non-current-dependent [ $P_{vs}$ ]

0 W

Heat dissipation capacity [ $P_{diss}$ ]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Please enquire

10.2 Strength of materials and parts 10.2.5 Lifting

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

10.2 Strength of materials and parts 10.2.6 Mechanical impact

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

10.2 Strength of materials and parts 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 Insulation properties  
 10.9.2 Power-frequency electric strength  
 Is the panel builder's responsibility.  
 10.9 Insulation properties  
 10.9.3 Impulse withstand voltage  
 Is the panel builder's responsibility.  
 10.9 Insulation properties  
 10.9.4 Testing of enclosures made of insulating material  
 Is the panel builder's responsibility.  
 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 (L) is observed.

## Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Control circuit devices combination in enclosure (EC000225)  
 Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Command and alarm device combination in housing (ecl@ss10.0.1-27-37-12-16 [AKF034014])  
 Number of command positions  
 3  
 Number of push buttons  
 3  
 Number of indicator lights  
 0  
 Number of key switches  
 0  
 Number of selector switches  
 0  
 Number of mushroom-shaped push-buttons  
 0  
 Suitable for emergency stop  
 No  
 Rated control supply voltage  $U_s$  at AC 50-HZ  
 115 - 500 V  
 Rated control supply voltage  $U_s$  at AC 60-HZ  
 115 - 500 V  
 Rated control supply voltage  $U_s$  at DC  
 24 - 220 V  
 Colour housing cover  
 Grey  
 Material housing  
 Plastic  
 Number of contacts as normally open contact  
 2  
 Number of contacts as normally closed contact  
 2  
 Number of contacts as change-over contact  
 0  
 Degree of protection (IP)  
 IP67/IP69K  
 Degree of protection (NEMA)  
 4X

## Approvals

Product Standards  
 IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking  
 UL File No.  
 E29184  
 UL Category Control No.  
 NKCR  
 CSA File No.  
 012528  
 CSA Class No.  
 3211-03  
 North America Certification  
 UL listed, CSA certified  
 Degree of Protection  
 UL/CSA Type 3R, 4X, 12, 13

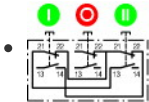
## Dimensions



# CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

# Wiring diagram



Contact sequence

3 make contacts, 3 break contacts for three-way push-button station

Wiring diagram

Line drawing

# Product photo



Photo

Product photo

Photo

# Declaration of Conformity

- [DA-DC-00003256](#)  
Declaration of Conformity  
(PDF)

# Dimensions single product

- [116X172](#)  
Surface mounting enclosure  
Dimensions single product  
Line drawing

# 3D drawing

- [116I298](#)  
Three-way pushbutton station  
3D drawing  
Line drawing

# Symbol

- [0000SFC-180](#)  
Germanischer Lloyd approval for Germany (color logo)  
Symbol  
Graphic
-   
[Button plate](#)  
Button plate, green / red  
Symbol  
Graphic
- [116C062](#)  
Button plate, grey  
Symbol  
Graphic

# Standards



DNV

0000SFC-183

Approval Norway Det Norske Veritas DNV

Standards

Logo

# StandardsSymbol

- [0000SFC-179](#)  
Lloyd's Register approval for Great Britain  
Standards  
Symbol  
Graphic

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