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M22-D-R-X0/K01 - Pushbutton, RMQ-Titan, Flat, momentary, 1 NC, red, inscribed, Bezel: titanium



216510 M22-D-R-X0/K01

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## 216510 M22-D-R-X0/K01

Pushbutton, RMQ-Titan, Flat, momentary, 1 NC, red, inscribed, Bezel: titanium  
Alternate Catalog No. M22-D-R-X0-K01Q  
EL-Nummer (Norway) 4355283

Pushbutton, RMQ-Titan, Complete unit, Design: Flat, momentary, Connection type: Screw connection, button plate: red, Button plate inscribed, Degree of Protection: IP66, IP67, IP69K, Bezel: titanium, Connection to SmartWire-DT: no, Contacts N/C = Normally closed: 1 NC, 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: mm 4.8, Maximum travel: mm 5.7, Minimum force for positive opening: N 15, Positive opening (ZW): yes, Front dimensions: 22 x 22, Standards: IEC/EN 60947, VDE 0660

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### Delivery program

Product range  
RMQ-Titan  
Basic function  
Pushbutton actuators  
Mounting hole diameter [□]  
22.5 mm  
Single unit/Complete unit  
Complete unit  
Design  
Flat  
momentary  
Connection type  
Screw connection  
Button plate  
button plate  
red  
Button plate



inscribed  
Degree of Protection  
IP66, IP67, IP69  
Front ring  
Bezel: titanium  
Connection to SmartWire-DT  
no

Contacts

N/C = Normally closed

1 NC

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

[mm]

4.8

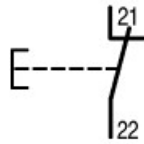
Maximum travel [mm]

5.7

Minimum force for positive opening [N]

15

Contact sequence



Positive opening (ZV)

yes

## Technical data

General

Standards

IEC/EN 60947

VDE 0660

Lifespan, mechanical [Operations]

$> 1 \times 10^6$

Operating frequency [Operations/h]

1800

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 temperature Open

-25 - +70 °C

Mounting position

As required

Mechanical shock resistance

30

Shock duration 11 ms

Sinusoidal

according to IEC 60068-2-27 g

shipping classification

DNV

GL

LR



Germanischer Lloyd



Contacts

Rated conditional short-circuit current [ $I_c$ ]

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 [ $P_{vd}$ ]

0.11 W

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

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 (IL) is observed.

## Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Push button, complete (EC001028)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Push-button actuator, complete unit (ecl@ss10.0.1-27-37-12-28 [AKF046014])

Number of command positions

1

Type of button

Flat

Colour button

Red

Construction type lens

Round

Hole diameter

22.5 mm

Width opening  
0 mm  
Height opening  
0 mm  
Suitable for illumination  
No  
Switching function latching  
No  
Spring-return  
Yes  
Supply voltage lamp  
0 V  
Number of contacts as normally open contact  
0  
Number of contacts as normally closed contact  
1  
Number of contacts as change-over contact  
0  
Type of electric connection  
Screw connection  
With front ring  
Yes  
Material front ring  
Plastic  
Colour front ring  
Chrome  
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

## CAD data

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

## DWG files

- [DA-CD-bg\\_d\\_001](#)  
File  
(Web)

## edz files

- [DA-CE-ETN.M22-D-R-X0\\_K01](#)  
File  
(Web)

## Step files

- [DA-CS-bg\\_d\\_001](#)  
File  
(Web)

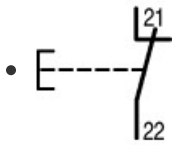
## 3D drawing



[116I271](#)

Line drawing  
Push-button actuator, front mounting

## Wiring diagram



[116S017](#)

Line drawing  
Break contact

## Product photo



[1160PIC-1349](#)

Photo

## Symbol



Germanischer Lloyd  
[0000SFC-180](#)

Graphic  
Germanischer Lloyd approval for Germany (color logo)



[DNV](#)  
[0000SFC-183](#)

Logo  
Approval Norway Det Norske Veritas DNV



[116C079](#)

Graphic  
Button plate

## Instruction Leaflet

- [RMQ-Titan System\(IL04716002Z\)](#)  
Asset  
former AWA1160-1745, IL04716001E  
(PDF, 09/2020, multilingual)

## StandardsSymbol



0000SPC-179

Graphic

Lloyd's Register approval for Great Britain

## Declaration of Conformity

### EU

- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30... \(DA-DC-00003657\)](#)  
Asset  
(PDF)

### UK

- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30... \(DA-DC-00003960\)](#)  
Asset  
(PDF)

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