



216731  
M22-DP-R-X

Overview

Specifications

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Design verification as per IEC/EN 61439

Technical data ETIM 7.0

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## DELIVERY PROGRAM

Product range  
RMQ-Titan

Basic function  
Mushroom-headed pushbutton

Mounting hole diameter [□]  
22.5 mm

Single unit/Complete unit  
Single unit

Design  
Mushroom

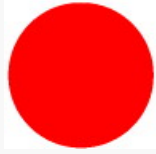
momentary

### Colour

Mushroom

red

Mushroom colour



### Button plate

button plate  
Without button plate

Degree of Protection  
IP66, IP67, IP69

Front ring  
Bezel: titanium

Connection to SmartWire-DT  
yes  
with SWD-RMQ connections

Function  
momentary

## TECHNICAL DATA

### General

Standards  
IEC/EN 60947  
VDE 0660

Lifespan, mechanical [Operations]  
> 5 x 10<sup>6</sup>

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 temperature  
Open  
-25 - +70 °C

Ambient temperature  
Storage  
- 40 - + 80 °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



## DESIGN VERIFICATION AS PER IEC/EN 61439

### Technical data for design verification

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

Heat dissipation per pole, current-dependent [ $P_{\text{vd}}$ ]

0 W

Equipment heat dissipation, current-dependent

[P<sub>vid</sub>]

0 W

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

0 W

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

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

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.

## TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Front element for mushroom push-button (EC001038)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for mushroom push-button actuators (ecl@ss10.0.1-27-37-12-12 [AKF030014])

Colour button

Red

Construction type lens

Round

Diameter cap

36.5 mm

Hole diameter

22.5 mm

Width opening

0 mm

Height opening

0 mm

Degree of protection (IP)  
IP67/IP69K

Degree of protection (NEMA)  
4X

Type of button  
Flat

Suitable for illumination  
No

Switching function latching  
No

Spring-return  
Yes

With front ring  
Yes

Material front ring  
Plastic

Colour front ring  
Chrome

Suitable for emergency stop  
No

Unlocking method  
None

## APPROVALS

Product Standards  
IEC/EN 60947-5; UL 508; CSA-C22.2 Nb. 14-05;  
CSA-C22.2 Nb. 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







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