



216878  
M22-PVL

Overview

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Technical data ETIM 7.0

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## DELIVERY PROGRAM

Product range  
RMQ-Titan

Basic function  
Controlled stop pushbuttons/emergency-stop buttons

Mounting hole diameter [□]  
22.5 mm

Single unit/Complete unit  
Single unit

Design  
Mushroom-shaped

Diameter [□]  
38 mm

Illumination  
Illuminated with LED element

Pull-to-release function

Description  
Tamper-proof according to ISO 13850/EN 418

## Colour

Mushroom head  
Red



Base  
yellow

RAL 3000

Degree of Protection  
IP66, IP69

Connection to SmartWire-DT  
no

## Instructions

Max. Configuration: 4 x M22-(C)K01, ...10 or 2 x M22-(C)K02, ...20, ...11 and 1 x M22-(F)LED..  
When using M22-FVL... with 1 x M22-K01SMC10 (single channel), article M22-XSMC (order no.: 173030) is required. Order this item separately.

## TECHNICAL DATA

### General

Standards  
IEC/EN 60947  
VDE 0660

Lifespan, mechanical [Operations]  
> 0.1 x 10<sup>6</sup>

Operating frequency [Operations/h]  
 600

Actuating force  
 50 n

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

Degree of Protection  
IP66, IP69

Ambient temperature  
Open  
-25 - +70 °C

Mbunting position  
As required

Mechanical shock resistance  
50  
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 [ $P_{vid}$ ]  
0 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  
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  
38 mm

Hole diameter  
22.5 mm

Width opening  
0 mm

Height opening  
0 mm

Degree of protection (IP)  
IP66

Degree of protection (NEMA)  
4X

Type of button  
Flat

Suitable for illumination  
Yes

Switching function latching  
Yes

Spring-return  
No

With front ring  
No

Material front ring  
Plastic

Colour front ring  
Chrome

Suitable for emergency stop  
Yes

Unlocking method  
Full-release

## 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





