



**216523**  
**M22-PVS/KC11/IY**

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

## DELIVERY PROGRAM

Product range  
RMQ-Titan

Basic function  
Housing  
Controlled stop pushbuttons/emergency-stop buttons

Mounting hole diameter [□]  
22.5 mm

Single unit/Complete unit  
Complete unit

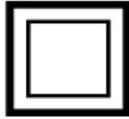
Design  
Mushroom-shaped

Diameter [□]  
38 mm

Illumination

Non-illuminated

Approval



Key-release

Connection type  
Screw connection

Description  
Tamper-proof according to ISO 13850/EN 418

Not suitable for master key systems

Number of locations  
1 Qty.

## Colour

Mushroom head  
Red



Enclosure covers  
Yellow

Degree of Protection  
IP66, IP67, IP69

Connection to SmartWire-DT  
no

## Contacts

N/C = Normally closed

1 NC □

NO = Normally open  
1 NO

Notes

□ = safety function, by positive opening to IEC/EN  
60947-5-1

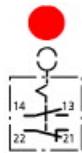
### Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1

[mm]  
4.8

Maximum travel [mm]  
5.7

Minimum force for positive opening [ N ]  
20

Contact sequence



Positive opening (ZW)  
yes

Information about equipment supplied  
1 key included as standard

## 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, IP67, IP69

Ambient temperature

Open

-25 - +70 °C

Mounting position

As required

Mechanical shock resistance

50

Shock duration 11 ms

Sinusoidal

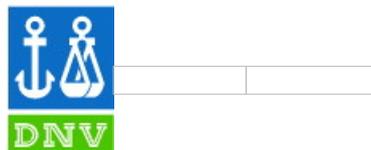
according to IEC 60068-2-27 g

shipping classification

DNV

GL

LR



## Contacts

Rated conditional short-circuit current [ $I_k$ ]

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 (IL) 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

1

Number of push buttons

1

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

Yes

Rated control supply voltage  $U_s$  at AC 50HZ

115 - 500 V

Rated control supply voltage  $U_s$  at AC 60HZ

115 - 500 V

Rated control supply voltage  $U_s$  at DC

24 - 220 V

Colour housing cover

Yellow

Material housing

Plastic

Number of contacts as normally open contact

1

Number of contacts as normally closed contact

1

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



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