216516
M22-PV/K11

DELIVERY PROGRAM

Product range
RMQ-Titan

Basic function
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

Pull-to-release function

Connection type
Screw connection

Description
Tamper-proof according to ISO 13850/EN 418

Colour

Mushroom head
Red

Base
yellow

Degree of Protection
IP66, IP69

Connection to SmartWire-DT
no

Contacts

N/C = Normally closed
1 NC□

N/O = Normally open
1 N/O

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

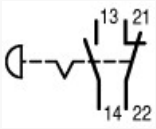
[mm]

4.8

Maximum travel [mm]
5.7

Minimum force for positive opening [N]
20

Contact sequence



Instructions
Max. number of contacts: four M22-(C)K01, …10
or two M22-(C)K02, …20, …11

TECHNICAL DATA

General

Standards
IEC/EN 60947
VDE 0660

Lifespan, mechanical [Operations]
> 0.1 x 10^6

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

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_q]
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) / Emergency stop complete (EC002034)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / EMERGENCY-STOP pushbutton, complete device (ecl@ss10.0.1-27-37-12-44 [ACN986011])

Unlocking method
Pull-release

Number of contacts as normally closed contact
1

Number of contacts as normally open contact
1

Degree of protection (IP)
IP66

Mounting method
Built-in

With lighting
No

Hole diameter
22.5 mm

Connection type auxiliary circuit
Screw connection

Diameter cap
38 mm

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