



216712
M22-DP-S

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
Mushroom-headed pushbutton

Mounting hole diameter [□]
22.5 mm

Single unit/Complete unit
Single unit

Design
Mushroom

momentary

Colour

Mushroom

black

Mushroom colour

Button plate

button plate
black

Button plate

Blank

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 10⁶

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_{id}]
0 W

Equipment heat dissipation, current-dependent
[P_{id}]
0 W

Static heat dissipation, non-current-dependent [P_{is}]
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
Black

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



