M22-I3-M2 - Housing, Pushbutton actuators, Indicator lights, Enclosure, momentary, 2 NC, 2 N/O, Screw connection, Number of locations 2, Grey, inscribed, Bezel: titanium

216533
M22-I3-M2

Overview | Specifications | Resources

DELIVERY PROGRAM

Delivery program

Technical data

Product range
RMQ-Titan

Design verification as per IEC/EN 61439

Basic function
Pushbutton actuators
Pushbutton actuators
Indicator lights

Technical data ETIM 7.0

Mounting hole diameter [□]
22.5 mm

Approvals

Single unit/Complete unit
Complete unit

Dimensions

Design
Enclosure

momentary

Connection type
Screw connection

Description
Indicator light, white
LED element
85 - 264 V AC

Number of locations
2 Qty.

Colour

Enclosure covers
Grey

RAL Value
RAL 7035

light grey, RAL 7035

Button plate

button plate
red, white, green

Button plate

inscribed

Degree of Protection
IP66, IP67, IP69

Front ring
Bezel: titanium

Connection to SmartWire-DT
no

Contacts

N/C = Normally closed
2 NC

N/O = Normally open
2 N/O

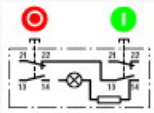
Notes
□ = safety function, by positive opening to IEC/EN 60947-5-1

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]
15

Contact sequence


TECHNICAL DATA

General

Standards
IEC/EN 60947
VDE 0660

Lifespan, mechanical [Operations]
> 5 x 10^6

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

Mounting position
As required

Mechanical shock resistance
30
Shock duration 11 ms
Sinusoidal
according to IEC 60068-2-27 g

Cable entry knockouts
Base
2 x 20 Quantity x M...

Cable entry knockouts
Sides
2 x 20
2 x 25/20 Quantity x M...

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}]
1 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
3

Number of push buttons
2

Number of indicator lights
1

Number of key switches
0

Number of selector switches
0

Number of mushroom-shaped push-buttons
0

Suitable for emergency stop
No

Rated control supply voltage Us at AC 50HZ
85 - 264 V

Rated control supply voltage Us at AC 60HZ
85 - 264 V

Rated control supply voltage Us at DC
0 - 0 V

Colour housing cover
Grey

Material housing
Plastic

Number of contacts as normally open contact
2

Number of contacts as normally closed contact
2

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