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Powering Business Worldwide

M22-WRK3/K20 - Changeover switch, RMQ-Titan, With thumb-grip, maintained, 3 positions, 2 NO, Bezel: titanium

216520 M22-WRK3/K20

[Overview](#) [Specifications](#) [Resources](#)



216520 M22-WRK3/K20

Changeover switch, RMQ-Titan, With thumb-grip, maintained, 3 positions, 2 NO, Bezel: titanium

Alternate Catalog No.

M22-WRK3-K20Q

EL-Nummer (Norway)

4355293

Changeover switch, Product range: RMQ-Titan, Complete unit, Design: With thumb-grip, maintained, Screw connection, 3 positions, Degree of Protection: IP66, Bezel: titanium, Connection to SmartWire-DT: no, Front dimensions: 29,7, Instructions: Stay-put/spring-return function, can be changed with coding parts M22-XC-Y, Contactor states 0, I and II correspond with the position of the actuator as viewed from the front., Standards: IEC/EN 60947, VDE 0660, Degree of Protection: IP66

• [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

Selector switch actuators

Single unit/Complete unit

Complete unit

Design

With thumb-grip

maintained

Function: [] = spring-return]

60° □ 60°

Connection type

Screw connection

3 positions

Degree of Protection

IP66

Front ring

Bezel: titanium

Connection to SmartWire-DT

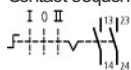
no

Contacts

NO = Normally open

2 NO

Contact sequence



Front dimensions

29,7

Instructions

Stay-put/spring-return function, can be changed with coding parts M22-XC-Y

Contactor states 0, I and II correspond with the position of the actuator as viewed from the front.

Technical data

General

Standards

IEC/EN 60947

VDE 0660

Lifespan, mechanical [Operations]

> 0.1 x 10⁶

Operating frequency [Operations/h]

□ 2000

Operating torque (screw terminals)

□ 0.3 Nm

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Degree of Protection

IP66
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
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]

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 (L) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Selector switch, complete (EC001029)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Selector switch, complete unit (ecl@ss10.0.1-27-37-12-43 [ACN984011])

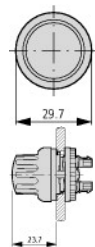
Number of switch positions

3
Type of control element
Toggle
Suitable for illumination
No
With light source
No
Colour button
Black
Hole diameter
22.5 mm
Width opening
0 mm
Height opening
0 mm
Switching function latching
Yes
Spring-return
No
Degree of protection (IP)
IP66
Degree of protection (NEMA)
4X
Supply voltage
0 - 0 V
Number of contacts as normally open contact
2
Number of contacts as normally closed contact
0
Number of contacts as change-over contact
0
Type of electric connection
Screw connection
With front ring
Yes
Material front ring
Plastic
Colour front ring
Chrome

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



IL04716002Z (AWA1160-1745) RMQ-Titan System

- [IL04716002Z \(AWA1160-1745\) RMQ-Titan System \(PDF\)](#)

CAD data

- [Product-specific CAD data \(Web\)](#)
- [3D Preview \(Web\)](#)

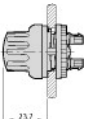
3D drawing

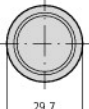
- [1160DRW-579](#)

Declaration of Conformity


- [DA-DC-00003256](#)
Declaration of Conformity
(PDF)

Dimensions single product


- 
[116X116](#)
Selector switch
Dimensions single product
Line drawing

- 
[116X121](#)
Actuator and signalling element
Dimensions single product
Line drawing

Wiring diagram

- 
[Contact sequence](#)
Circuit diagram for selector switch actuator, 3 positions, stay-put
Wiring diagram
Line drawing

Symbol

- 
[Germanischer Lloyd](#)
[0000SFC-180](#)
Germanischer Lloyd approval for Germany (color logo)
Symbol
Graphic

Standards

- 
[DNV](#)
[0000SFC-183](#)
Approval Norway Det Norske Veritas DNV
Standards
Logo

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