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M22-KC03SMC10 - Self-monitoring contact elements, Screw terminals, Base fixing, 1 NO, 3 NC, 24 V 3 A



173028 M22-KC03SMC10

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



173028 M22-KC03SMC10

Self-monitoring contact elements, Screw terminals, Base fixing, 1 NO, 3 NC, 24 V 3 A

Alternate Catalog No.

M22-KC03SMC10

EL-Nummer (Norway)

4315277

Contact element, Connection technique: Screw terminals, Fixing: Base fixing, Description: The NO in the self-monitoring contact element is actuated when mounted with M22-XSMC., Contacts NO = Normally open: 1 NO, Contacts NC = Normally closed: 3 NC, Contacts 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 45, Degree of Protection: IP20, Connection to SmartWire-DT: no, Standards: IEC 60947-5-1

-

- Delivery program

- Technical data

- Design verification as per IEC/EN 61439

- Technical data ETIM 7.0

- Approvals

Delivery program

Basic function accessories

Self-monitoring contact elements

Description

The NO in the self-monitoring contact element is actuated when mounted with M22-XSMC.

Connection technique

Screw terminals

Fixing

Base fixing

Degree of Protection

IP20

Connection to SmartWire-DT

no

Approval

Contacts

NO = Normally open

1 NO

NC = Normally closed

3 NC ☐

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

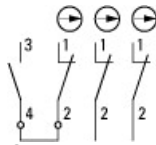
Maximum travel [mm]

5.7

Minimum force for positive opening [N]

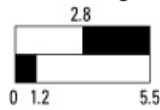
45

Contact sequence



Contact travel diagram, stroke in connection with front element

Contact diagram



Connection technique

Screw terminals

Technical data

General

Standards

IEC 60947-5-1

Actuating force

□ 15 n

Operating torque (screw terminals)

□ 0.8 Nm

Degree of Protection

IP20

Climatic proofing

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

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

Ambient temperatureOpen

-25 - +70 °C

Terminal capacitiesSolid

0.75 - 2.5 mm²

Terminal capacitiesStranded

0.5 - 2.5 mm²

Terminal capacitiesFlexible with ferrule

0.5 - 1.5 mm²

Contacts

Rated impulse withstand voltage [U_{imp}]

6000 V AC

Rated insulation voltage [U_i]

500 V

Overvoltage category/pollution degree

III/3

Max. short-circuit protective deviceFuseless

PKZM0-10/FAZ-B6/1 Type

Max. short-circuit protective deviceFuse [gG/gL]

10 A

Switching capacity

Rated operational current [I_e]AC-15115 V [I_e]

6 A

Rated operational current [I_e]AC-15220 V 230 V 240 V [I_e]

6 A

Rated operational current [I_e]AC-15380 V 400 V 415 V [I_e]

4 A

Rated operational current [I_e]AC-15500 V [I_e]

2 A

Rated operational current [I_e]DC-13 24 V [I_e]

3 A

Rated operational current [I_e]DC-13 42 V [I_e]

1.7 A

Rated operational current [I_e]DC-13 60 V [I_e]

1.2 A

Rated operational current [I_e]DC-13 110 V [I_e]

0.6 A

Rated operational current [I_e]DC-13 220 V [I_e]

0.3 A

Auxiliary 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_r]

6 A

Heat dissipation per pole, current-dependent [P_{rd}]

0.11 W

Equipment heat dissipation, current-dependent [P_{rd}]

0 W

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

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

Meets the product standard's requirements.

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) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ec1@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact

0

Number of contacts as normally open contact
0
Number of contacts as normally closed contact
3
Number of fault-signal switches
0
Rated operation current Ie at AC-15, 230 V
6 A
Type of electric connection
Screw connection
Model
Top mounting
Mounting method
Floor fastening
Lamp holder
None

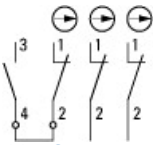
Approvals

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.
E340491
UL Category Control No.
NISD
CSA File No.
012528_C_000
CSA Class No.
3211-03
North America Certification
UL listed, CSA certified

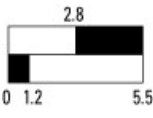
Additional product information

- [DGVV Test Mark Customer Information](#)
(PDF)

Wiring diagram

- 
1160SW-45
Line drawing

Contact travel diagram

- 
116U024
Coordinate visualization
Contact travel diagram complete components

Product photo

- 
1160PIC-1046
Photo

3D drawing



Declaration of Conformity

EU

- [E-stop operating devices RMQ Titan & acc. M22/M30\(S\)-PV\(LT\)30... \(DA-DC-00003323\)](#)
Asset
(PDF)
- [Emergency-stop operating devices RMQ Titan & accessories M22-..., M30-... \(DA-DC-00003622\)](#)
Asset
(PDF)
- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30... \(DA-DC-00003657\)](#)
Asset
(PDF)
- [DA-DC-dguv_test_zeichen_infoblatt_kunden](#)
Asset
(PDF)

UK

- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30... \(DA-DC-00003960\)](#)
Asset
(PDF)

Instruction Leaflet

- [RMQ-Titan System \(IL04716002Z\)](#)
Asset
former AWA1160-1745, IL04716001E
(PDF, 09/2020, multilingual)
- [RMQ-Titan: Emergency-Stop buttons, Emergency-Switching-Off buttons \(IL04716005Z\)](#)
Asset
IL04716005Z RMQ-Titan: Emergency-Stop buttons, Emergency-Switching-Off buttons
(PDF, 05/2021, multilingual)

Standards

- [000Z425](#)
Logo
Certification: DGUV ET16107

CAD data

edz files

- [DA-CE-ETN.M22-K003SMC10](#)
File
(Web)

Download-Center

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