Specifications

Eaton 150643

Catalog Number: 150643

Eaton Moeller® series M22 Accessory Contact element, 1 N/C, Front fastening, Front fixing, Single contact



General specifications

Product Name
Eaton Moeller® series M22 Accessory Contact element

Catalog Number
150643

EAN
4015081469550

Product Length/Depth
38 mm

Product Height
32 mm

Product Width
10 mm

Product Weight
0.01 kg

Certifications
IEC 60947-5-1

Catalog Notes
Contacts with safety function, by positive opening to IEC/EN 60947-5-1

Powering Business Worldwide

Features & Functions

Electric connection type

Screw connection

General

Degree of protection

IP20

Lifespan, electrical

1,200,000 Operations (at 12 V, DC-13, 2.8 A)
1,000,000 Operations (at 230 V, AC-15, 1 A)
700,000 Operations (at 230 V, AC-15, 3 A)
1,600,000 Operations (at 230 V, 0.5 A)

Model

Top mounting

Mounting method

Front fastening

Operating torque

0.8 Nm

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (Uimp)

6000 V AC

Ambient conditions, mechanical

Shock resistance

30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

70 °C

Ambient storage temperature - min

-25 °C

Ambient storage temperature - max

85 °C

Climatic proofing

Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Terminal capacities

Terminal capacity (flexible with ferrule)

Electrical rating

Rated insulation voltage (Ui)

0.5 - 1.5 mm²

Terminal capacity (solid)

0.75 - 2.5 mm²

Terminal capacity (stranded)

0.5 - 2.5 mm²

500 V

Rated operational current (Ie)

5 A – 600 V AC

1 A - 250 V DC

Rated operational current (Ie) at AC-15, 115 V

6 A

Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V

6 A

Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V

4 A

Rated operational current (Ie) at AC-15, 500 V

2 A

Rated operational current (Ie) at DC-13, 110 V

0.6 A

Rated operational current (Ie) at DC-13, 220 V, 230 V

0.3 A

Rated operational current (Ie) at DC-13, 24 V

3 A

Rated operational current (Ie) at DC-13, 42 V

1.7 A

Rated operational current (Ie) at DC-13, 60 V

1.2 A

Rated operational current (Ie) at DC-13, 500 V

0.1 A

Short-circuit rating

Rated conditional short-circuit current (Iq)

1 kA

Short-circuit protection

PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless

Short-circuit protection rating

Max. 10 A gG/gL, Fuse, Contacts

Communication

Connection to SmartWire-DT

No

Connection type

Single contact

Front fixing

Actuator

Actuating force - max

4 N

Actuator travel and actuation force (DIN EN 60947-5-1)

4.8 mm

Knob travel

5.7 mm

Contacts

Control circuit reliability

1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)

Force for positive opening - min

15 N

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

0

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.11 W

Rated operational current for specified heat dissipation (In)

6 A

Static heat dissipation, non-current-dependent Pvs

0 W

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Resources

Catalogs

eaton-rmq-titan-brochure-br047004en-en-us.pdf

Flip catalog - Product Range Catalog - Command and indication

eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf

Certification reports

000Z425

Declarations of conformity

DA-DC-00004971.pdf

DA-DC-00004134.pdf

DA-DC-00004975.pdf

DA-DC-00004180.pdf

DA-DC-00004135.pdf

DA-DC-00004157.pdf

DA-DC-00004176.pdf

DA-DC-00004141.pdf

Drawings

eaton-circuit-breaker-release-nzm-mccb-dimensions.eps

eaton-operating-actuation-m22-led-element-dimensions.eps

eaton-operating-contact-m22-contact-element-3d-drawing-004.eps

eaton-general-standards-000Z425.jpg

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

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.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

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

eaton-operating-adapter-m22-contact-element-flow-diagram-002.eps

eaton-operating-devices-adapter-flow-diagram-003.eps

eCAD model

ETN.150643.edz

Installation instructions

IL04716005Z.pdf

eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf

IL04716002Z

Installation videos

RMQ Flat Design

mCAD model

DA-CS-kontaktelement_schraube_front

DA-CD-kontaktelement_schraube_front

Multimedia

MCI Multicolor Light Indicator M22 with SmartWire-DT

easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator

RMQ small E-Stop emergency-stop button

MCI MultiColor Light Indicator RMQ compact solution

Sales notes

eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf

eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf

eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf

eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf

System overview

Pilot devices - selection aid

Wiring diagrams

eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram.eps

eaton-operating-contact-m22-contact-element-wiring-diagram-003.eps

switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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