

Specifications

Photo is representative

Eaton 216376

Eaton Moeller® series M22 Contact element, Screw terminals, Front fixing, 1 N/O, 24 V 3 A, 220 V 230 V 240 V 6 A

General specifications

PRODUCT NAME	Eaton Moeller® series M22 Accessory Contact element
CATALOG NUMBER	216376
MODEL CODE	M22-K10
EAN	4015082163761
PRODUCT LENGTH/DEPTH	38 mm
PRODUCT HEIGHT	10 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.01 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA Std. C22.2 No. 94-91 UL 508 IEC 60947-5 CSA Std. C22.2 No. 14-05 EN 60947-5 VDE CSA File No.: 012528 CSA-C22.2 No. 14-05 CSA-C22.2 No. 94-91 CSA UL Category Control No.: NKCR UL File No.: E29184 UL/CSA CE IEC/EN 60947-5 IEC IEC 60947-5-1 CSA Class No.: 3211-03 UL

Features & Functions

ELECTRIC CONNECTION TYPE

Screw connection

General

DEGREE OF PROTECTION IP20

LIFESPAN, ELECTRICAL

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

LIFESPAN, MECHANICAL

5,000,000 Operations

MODEL

Top mounting and
integrable

MOUNTING METHOD

Front fastening

OPERATING FREQUENCY

3600 Operations/h

OPERATING TORQUE

0.8 Nm

**OVERVOLTAGE
CATEGORY**

III

POLLUTION DEGREE

3

PRODUCT CATEGORY

Accessories

**RATED IMPULSE
WITHSTAND VOLTAGE
(UIMP)**

6000 V AC

TYPE

Auxiliary contact

USED WITH

Can be used with NZM2
size circuit-breaker: a
standard auxiliary contact
can be clipped into the
circuit-breaker.
Can be used with NZM3, 4
circuit-breaker: up to three
standard auxiliary
contacts can be clipped
into the circuit-breaker.
Can be used with NZM1
circuit-breaker: a standard
auxiliary contact can be
clipped into the circuit-
breaker.
Can be used with NZM4
circuit-breaker: up to two
standard auxiliary
contacts can be clipped
into the circuit-breaker.
Can be used with NZM1, 2,
3 circuit-breaker: a trip-
indicating auxiliary contact
can be clipped into the
circuit-breaker.

Ambient conditions, mechanical

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

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	0.5 - 1.5 mm ²
TERMINAL CAPACITY (SOLID)	0.75 - 2.5 mm ²
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)	1 x (0,75 - 2,5) mm ² 2 x (0,75 - 2,5) mm ²
TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 mm ²

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

Electrical rating

CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	4 A
RATED INSULATION VOLTAGE (UI)	500 V
RATED OPERATIONAL CURRENT (IE)	1 A - 250 V DC 5 A - 600 V AC
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
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	220 V

Short-circuit rating

SHORT-CIRCUIT PROTECTION	PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
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SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Auxiliary contacts Max. 10 A gG/gL, Fuse, Contacts
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Actuator

ACTUATING FORCE - MAX	5 N
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Communication

CONNECTION TO SMARTWIRE-DT	No
CONNECTION TYPE	Front fixing Single contact

Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
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FORCE FOR POSITIVE OPENING - MIN	0 N
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

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 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.

Resources

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

CATALOGUES

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

CERTIFICATION REPORTS

[000Z425](#)

CONTROL TRAVEL DIAGRAM

[eaton-operating-diagram-m22-contact-element-contact-travel-diagram-007.eps](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004975.pdf](#)

[DA-DC-00004135.pdf](#)

[DA-DC-00004176.pdf](#)

[DA-DC-00004157.pdf](#)

[DA-DC-00004134.pdf](#)

[DA-DC-00004971.pdf](#)

[eaton-operating-actuation-m22-led-element-dimensions.eps](#)

[eaton-circuit-breaker-release-nzm-mccb-dimensions.eps](#)

DRAWINGS

[eaton-operating-contact-m22-contact-element-3d-drawing-004.eps](#)

[eaton-general-standards-000Z425.jpg](#)

[eaton-operating-devices-adapter-flow-diagram-002.eps](#)

ECAD MODEL

[ETN.216376.edz](#)

FLYERS

[eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf](#)

INSTALLATION INSTRUCTIONS

[IL04716002Z](#)

[eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf](#)

INSTALLATION VIDEOS

[RMQ Flat Design](#)

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 switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

MCAD MODEL	DA-CS-kontaktelement_schraube_front DA-CD-kontaktelement_schraube_front
MULTIMEDIA	MCI Multicolor Light Indicator M22 with SmartWire-DT RMQ small E-Stop emergency-stop button MCI MultiColor Light Indicator RMQ compact solution easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator
SALES NOTES	eaton-control-circuit-devices-rmq-titan-fl144090en-en-us.pdf eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf
WIRING DIAGRAMS	eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram-006.eps eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram-007.eps eaton-operating-contact-m22-contact-element-wiring-diagram-002.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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