



Photo is representative

## 216378

Eaton Moeller® series M22 Contact element, Screw terminals, Front fixing, 1 NC, 24 V 3 A, 220 V 230 V 240 V 6 A M22-K01

Contact us about this product

[Configure pilot devices online](https://eaton.com/takeoff-redirect?role=ANON1&toicode=PUSHBUT&cid=1) (https://eaton.com/takeoff-redirect?role=ANON1&toicode=PUSHBUT&cid=1)

## Specifications

### GENERAL SPECIFICATIONS

#### PRODUCT NAME

Eaton Moeller® series M22 Accessory Contact element

#### CATALOG NUMBER

216378

#### MODEL CODE

M22-K01

#### EAN

4015082163785

#### PRODUCT LENGTH/DEPTH

38 mm

#### PRODUCT HEIGHT

10 mm

#### PRODUCT WIDTH

32 mm

#### PRODUCT WEIGHT

.01 kg

#### COMPLIANCES

CE Marked

#### CERTIFICATIONS

CSA Std. C22.2 No. 14-05

IEC 60947-5

CSA Std. C22.2 No. 94-91

### 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)

1,600,000 Operations (at 230 V, 0.5 A)

700,000 Operations (at 230 V, AC-15, 3 A)

1,000,000 Operations (at 230 V, AC-15, 1 A)

#### LIFESPAN, MECHANICAL

5,000,000 Operations

#### MODEL

Top mounting and integrable

#### MOUNTING METHOD

Front fastening

#### OPERATING FREQUENCY

3600 Operations/h

#### OPERATING TORQUE

.8 Nm

UL 508  
EN 60947-5  
VDE  
CSA-C22.2 No. 94-91  
IEC  
IEC 60947-5-1  
CSA  
CSA Class No.: 3211-03  
CSA-C22.2 No. 14-05  
CSA File No.: 012528  
UL  
UL Category Control No.: NKCR  
UL File No.: E29184  
CE  
IEC/EN 60947-5  
UL/CSA

#### MODEL CODE

M22-K01

## AMBIENT CONDITIONS, MECHANICAL

#### SHOCK RESISTANCE

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

## TERMINAL CAPACITIES

#### TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)

0.5 - 1.5 mm<sup>2</sup>

#### TERMINAL CAPACITY (SOLID)

0.75 - 2.5 mm<sup>2</sup>

#### TERMINAL CAPACITY (SOLID/FLEXIBLE WITH

#### FERRULE)

2 x (0,5 - 0,75) mm<sup>2</sup>  
1 x (0,75 - 2,5) mm<sup>2</sup>

#### TERMINAL CAPACITY (STRANDED)

0.5 - 2.5 mm<sup>2</sup>

## OVERVOLTAGE CATEGORY

III

## POLLUTION DEGREE

3

## PRODUCT CATEGORY

Accessories

## RATED IMPULSE WITHSTAND VOLTAGE (UIMP)

6000 V AC

## USED WITH

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 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.

Can be used with NZM2 size circuit-breaker: a standard auxiliary contact 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.

## CLIMATIC ENVIRONMENTAL CONDITIONS

#### AMBIENT OPERATING TEMPERATURE - MIN

-25 °C

#### AMBIENT OPERATING TEMPERATURE - MAX

70 °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)

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

6 A

**RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V,**

**230 V**

.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 VOLTAGE (UE) AT AC - MAX**

500 V

**RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX**

220 V

## ACTUATOR

**ACTUATING FORCE - MAX**

5 N

**ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN**

**60947-5-1)**

4.8 mm

**KNOB TRAVEL**

5.7 mm

## DESIGN VERIFICATION

**EQUIPMENT HEAT DISSIPATION, CURRENT-**

**DEPENDENT PVID**

0 W

**HEAT DISSIPATION CAPACITY PDISS**

0 W

**HEAT DISSIPATION PER POLE, CURRENT-**

**DEPENDENT PVID**

.11 W

**RATED OPERATIONAL CURRENT FOR SPECIFIED**

**HEAT DISSIPATION (IN)**

6 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

Max. 10 A gG/gL, Fuse, Auxiliary contacts

## COMMUNICATION

**CONNECTION TO SMARTWIRE-DT**

No

**CONNECTION TYPE**

Front fixing

Single contact

## 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

**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.

**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.

## Download Links

### 3D models

↓ [DA-CD-kontaktelement\\_schraube\\_front](https://www.eaton.com/content/dam/eaton/cad/mcad/dwg/kontaktelement_schraube_front.dwg) (https://www.eaton.com/content/dam/eaton/cad/mcad/dwg/kontaktelement\_schraube\_front.dwg)

↓ [DA-CS-kontaktelement\\_schraube\\_front](https://www.eaton.com/content/dam/eaton/cad/mcad/step/kontaktelement_schraube_front.stp) (https://www.eaton.com/content/dam/eaton/cad/mcad/step/kontaktelement\_schraube\_front.stp)

[Download all files](#)

### Certification reports

↓ [DA-DC-00003323](https://es-assets.eaton.com/DOCUMENTATION/DECLARATIONS/01_00003323.pdf) (https://es-assets.eaton.com/DOCUMENTATION/DECLARATIONS/01\_00003323.pdf)

↓ [DA-DC-00003379](https://es-assets.eaton.com/DOCUMENTATION/DECLARATIONS/01_00003379.pdf) (https://es-assets.eaton.com/DOCUMENTATION/DECLARATIONS/01\_00003379.pdf)

↓ [000Z425](https://pl.eaton.com/image?doc_name=000Z425) (https://pl.eaton.com/image?doc\_name=000Z425)

[Download all files](#)

### Wiring diagrams

### Brochures

↓ [RMQ Titan - brochure](https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/en-globalprime/pushbuttons-and-stacklights/eaton-real-beauty-is-in-the-system-RMQ-BR047004EN-EN.pdf) (https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/en-globalprime/pushbuttons-and-stacklights/eaton-real-beauty-is-in-the-system-RMQ-BR047004EN-EN.pdf)

### Catalogues

↓ [Product Range Catalog Command and Indication Control Circuit Devices, Signal Towers](https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/en-globalprime/pushbuttons-and-stacklights/Eaton%20Product%20Range%20Catalog%20Command%20and%20Indication%20CA%20EN.pdf) (https://www.eaton.com/content/dam/eaton/products/industrialcontrols-drives-automation-sensors/en-globalprime/pushbuttons-and-stacklights/Eaton%20Product%20Range%20Catalog%20Command%20and%20Indication%20CA%20EN.pdf)

### Drawings

↓ [116X101](https://pl.eaton.com/image?doc_name=116X101) (https://pl.eaton.com/image?doc\_name=116X101)

↓ [116I251](https://pl.eaton.com/image?doc_name=116I251) (https://pl.eaton.com/image?doc\_name=116I251)

↓ [116Q003](https://pl.eaton.com/image?doc_name=116Q003) (https://pl.eaton.com/image?doc\_name=116Q003)

[Download all files](#)

Note: If file(s) are missing from the .zip download then the file type is not supported by bulk download.



[123S137](https://pl.eaton.com/image?doc_name=123S137&locale=en&type=big) (https://pl.eaton.com/image?doc\_name=123S137&locale=en&type=big)



[116S041](https://pl.eaton.com/image?doc_name=116S041) (https://pl.eaton.com/image?doc\_name=116S041)



[123S136](https://pl.eaton.com/image?doc_name=123S136&locale=en&type=big) (https://pl.eaton.com/image?doc\_name=123S136&locale=en&type=big)

[Download all files](#)



#### [Questions before you buy](#)

Contact us via web form by clicking the link above, or call us:  
+44 (0) 1753 608 700 option 2,  
then option 1



#### [Locate a distributor](/gb/en-gb/support/where-to-buy/pd-icp-distributor-locator.html) (/gb/en-gb/support/where-to-buy/pd-icp-distributor-locator.html)

Find an Eaton stockist near you

[Privacy, cookies & data protection policy](/gb/en-gb/company/policies-and-statements/privacy-cookies-and-data-protection.html) (/gb/en-gb/company/policies-and-statements/privacy-cookies-and-data-protection.html)

© 2022 Eaton. All rights reserved.