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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&tocode=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

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.

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

CLIMATIC PROOFING

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

TERMINAL CAPACITIES

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)

0.5 - 1.5 mm²

TERMINAL CAPACITY (SOLID)

0.75 - 2.5 mm²

TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)

2 x (0,5 - 0,75) mm²
1 x (0,75 - 2,5) mm²

TERMINAL CAPACITY (STRANDED)

0.5 - 2.5 mm²

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.

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3D models

DA-CD-kontaktelement_schraube_front (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)

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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)

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)

Certification reports

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

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

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Wiring diagrams

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