

Specifications

Eaton 107940

Eaton Moeller® series M22 Contact element, Cage Clamp, Front fixing, 1 N/O, 1 NC, 24 V 3 A, 220 V 230 V 240 V 4 A

General specifications

PRODUCT NAME	Eaton Moeller® series M22 contact element
CATALOG NUMBER	107940
MODEL CODE	M22-CK11
EAN	4015081075379
PRODUCT LENGTH/DEPTH	43 mm
PRODUCT HEIGHT	10 mm
PRODUCT WIDTH	38 mm
PRODUCT WEIGHT	0.012 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA Std. C22.2 No. 94-91 IEC 60947-5 CSA Std. C22.2 No. 14-05 EN 60947-5 UL 508 CSA IEC 60947-5-1 CSA File No.: 012528 UL File No.: E29184 CE CSA-C22.2 No. 94-91 UL Category Control No.: NKCR CSA Class No.: 3211-03 IEC/EN 60947-5 IEC CSA-C22.2 No. 14-05 UL/CSA UL
GLOBAL CATALOG	107940
PRODUCT TYPE	Contact element

Product specifications

USED WITH	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 NZM3, 4 circuit-breaker: up to three 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.
TYPE	Auxiliary contact
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.
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	Meets the product standard's requirements.

Resources

CATALOGS	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-005.eps
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk251351en.pdf eaton-contact-element-declaration-of-conformity-eu251487en.pdf
DRAWINGS	eaton-operating-actuation-m22-contact-element-dimensions.eps eaton-circuit-breaker-release-nzm-mccb-dimensions.eps eaton-operating-rmq-m22-contact-element-3d-drawing.eps eaton-general-standards-000Z425.jpg
ECAD MODEL	ETN.107940.edz
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	doppelkontaktelement_cage_front doppelkontaktelement_cage_front.stp
PEP ECO-PASSPORT	eaton-contact-blocks-pep-eato-00317-v0101-en.pdf
WIRING DIAGRAMS	eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram-002.eps eaton-circuit-breaker-diagram-m22-contact-element-wiring-diagram.eps eaton-operating-contact-m22-contact-element-wiring-diagram-006.eps

TO NORMAL HEAT

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.

ELECTRIC CONNECTION TYPE

Spring clamp connection

OPERATING FREQUENCY

3600 Operations/h

POLLUTION DEGREE

3

CLIMATIC PROOFING

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

ACTUATING FORCE - MAX

10 N

ACTUATOR TRAVEL AND

4.8 mm

**ACTUATION FORCE (DIN
EN 60947-5-1)**

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
CONVENTIONAL THERMAL CURRENT I_{TH} OF AUXILIARY CONTACTS (1-POLE, OPEN)	4 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
FORCE FOR POSITIVE OPENING - MIN	20 N
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.05 W
KNOB TRAVEL	5.7 mm
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF SWITCHES (FAULT SIGNAL)	0
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
CONTACT CONFIGURATION	1 NO, 1 NC
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (I_Q)	1 kA
CONNECTION TYPE	Double contact Front fixing Cage Clamp
MOUNTING METHOD	Front fastening
OVERVOLTAGE	III

CATEGORY	
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)
DEGREE OF PROTECTION	IP20
MODEL	Top mounting and integrable
LAMP HOLDER	None
TERMINAL CAPACITY (AWG)	1 x (20 - 18) 2 x (20 - 18)
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)	2 x (0,5 - 0,75) mm ² 1 x (0,5 - 1,5) mm ²
TERMINAL CAPACITY (STRANDED)	0.5 - 1.5 mm ²
SHORT-CIRCUIT PROTECTION	PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
PRODUCT CATEGORY	Accessories
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
RATED INSULATION VOLTAGE (UI)	250 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 115 V	4 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 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,	1 A

60 V

RATED OPERATIONAL

CURRENT FOR SPECIFIED 4 A
HEAT DISSIPATION (IN)

RATED OPERATIONAL

VOLTAGE (UE) AT AC - 230 V
MAX

RATED OPERATIONAL

VOLTAGE (UE) AT DC - 220 V
MAX

TERMINAL CAPACITY

(FLEXIBLE WITH 0.5 - 1.5 mm²
FERRULE)

TERMINAL CAPACITY

(SOLID) 0.5 - 1.5 mm²

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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