

# 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

<b>PRODUCT NAME</b>	Eaton Moeller® series M22 contact element
<b>CATALOG NUMBER</b>	107940
<b>MODEL CODE</b>	M22-CK11
<b>EAN</b>	4015081075379
<b>PRODUCT LENGTH/DEPTH</b>	43 mm
<b>PRODUCT HEIGHT</b>	10 mm
<b>PRODUCT WIDTH</b>	38 mm
<b>PRODUCT WEIGHT</b>	0.012 kg
<b>COMPLIANCES</b>	CE Marked
<b>CERTIFICATIONS</b>	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.: NKR CSA Class No.: 3211-03 IEC/EN 60947-5 IEC CSA-C22.2 No. 14-05 UL/CSA UL
<b>GLOBAL CATALOG</b>	107940
<b>PRODUCT TYPE</b>	Contact element



Powering Business Worldwide

## 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
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS</b>	Meets the product standard's requirements.

## Resources

CATALOGS	<a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>
CERTIFICATION REPORTS	<a href="#">000Z425</a>
CONTROL TRAVEL DIAGRAM	<a href="#">eaton-operating-diagram-m22-contact-element-contact-travel-diagram-005.eps</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-accessory-declaration-of-conformity-uk251351en.pdf</a> <a href="#">eaton-contact-element-declaration-of-conformity-eu251487en.pdf</a>
DRAWINGS	<a href="#">eaton-operating-actuation-m22-contact-element-dimensions.eps</a> <a href="#">eaton-circuit-breaker-release-nzm-mccb-dimensions.eps</a> <a href="#">eaton-operating-rmq-m22-contact-element-3d-drawing.eps</a> <a href="#">eaton-general-standards-000Z425.jpg</a>
ECAD MODEL	<a href="#">ETN.107940.edz</a>
INSTALLATION INSTRUCTIONS	<a href="#">IL04716002Z</a>
MCAD MODEL	<a href="#">doppelkontaktelement_cage_front</a> <a href="#">doppelkontaktelement_cage_front.stp</a>
PEP ECO-PASSPORT	<a href="#">eaton-contact-blocks-pep-eato-00317-v0101-en.pdf</a>
WIRING DIAGRAMS	<a href="#">eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram-002.eps</a> <a href="#">eaton-circuit-breaker-diagram-m22-contact-element-wiring-diagram.eps</a> <a href="#">eaton-operating-contact-m22-contact-element-wiring-diagram-006.eps</a>

<b>TO NORMAL HEAT</b>	
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>ELECTRIC CONNECTION TYPE</b>	Spring clamp connection
<b>OPERATING FREQUENCY</b>	3600 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>ACTUATING FORCE - MAX</b>	10 N
<b>ACTUATOR TRAVEL AND</b>	4.8 mm

<b>ACTUATION FORCE (DIN EN 60947-5-1)</b>	
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	85 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-25 °C
<b>CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)</b>	4 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>FORCE FOR POSITIVE OPENING - MIN</b>	20 N
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.05 W
<b>KNOB TRAVEL</b>	5.7 mm
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF SWITCHES (FAULT SIGNAL)</b>	0
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4000 V AC
<b>CONTACT CONFIGURATION</b>	1 NO, 1 NC
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	1 kA
<b>CONNECTION TYPE</b>	Double contact Front fixing Cage Clamp
<b>MOUNTING METHOD</b>	Front fastening
<b>OVERVOLTAGE</b>	III

CATEGORY	
<b>CONTROL CIRCUIT RELIABILITY</b>	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)
<b>DEGREE OF PROTECTION</b>	IP20
<b>MODEL</b>	Top mounting and integrable
<b>LAMP HOLDER</b>	None
<b>TERMINAL CAPACITY (AWG)</b>	1 x (20 - 18) 2 x (20 - 18)
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)</b>	2 x (0,5 - 0,75) mm <sup>2</sup> 1 x (0,5 - 1,5) mm <sup>2</sup>
<b>TERMINAL CAPACITY (STRANDED)</b>	0.5 - 1.5 mm <sup>2</sup>
<b>SHORT-CIRCUIT PROTECTION</b>	PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>PRODUCT CATEGORY</b>	Accessories
<b>SHORT-CIRCUIT PROTECTION RATING</b>	Max. 10 A gG/gL, Fuse, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
<b>RATED INSULATION VOLTAGE (UI)</b>	250 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 115 V</b>	4 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>	6 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>	0.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>	3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13,</b>	1 A

60 V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	230 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	220 V
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	0.5 - 1.5 mm <sup>2</sup>
TERMINAL CAPACITY (SOLID)	0.5 - 1.5 mm <sup>2</sup>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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