

Specifications



Eaton 121720

Eaton Moeller® series M22 Accessory
Contact element, 1 N/O, 2 N/C, Floor
fastening, Base fixing

General specifications

PRODUCT NAME	Eaton Moeller® series M22 contact element
CATALOG NUMBER	121720
MODEL CODE	M22-KC02SMC10
EAN	4015081195305
PRODUCT LENGTH/DEPTH	38 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	32 mm
PRODUCT WEIGHT	0.032 kg
CERTIFICATIONS	CSA File No.: 012528_C_000 UL File No.: E340491 UL Category Control No.: NISD CSA-C22.2 No. 14-05 IEC/EN 60947-5 CSA CSA-C22.2 No. 94-91 UL CE CSA Class No.: 3211-03 IEC 60947-5-1 UL 508
CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947- 5-1

Actuator

ACTUATING FORCE - MAX	10 N
KNOB TRAVEL	5.7 mm

Communication

CONNECTION TO SMARTWIRE-DT	No
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Contacts

FORCE FOR POSITIVE OPENING - MIN	30 N
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

Design verification

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 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	Does not apply, since the

Electrical rating

RATED INSULATION VOLTAGE (UI)	500 V
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, 500 V	0.1 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1.2 A

AGAINST ELECTRIC SHOCK	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.
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

Features & functions

ELECTRIC CONNECTION TYPE	Screw connection
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Mounting details

CONNECTION TYPE	Base fixing
MOUNTING METHOD	Base

General information

DEGREE OF PROTECTION	IP20
MODEL	Top mounting
OPERATING TORQUE	0.8 Nm
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
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Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	0.5 - 1.5 mm ²
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TERMINAL CAPACITY (SOLID)	0.75 - 2.5 mm ²
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TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 mm ²
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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

Resources

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-009.eps](#)

DECLARATIONS OF CONFORMITY

[eaton-assembled-contact-element-and-mounting-adapter-declaration-of-conformity-eu260061en.pdf](#)

[eaton-contact-element-declaration-of-conformity-uk260062en.pdf](#)

[eaton-operating-contact-m22-contact-element-3d-drawing-002.eps](#)

DRAWINGS

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

[eaton-operating-m22-contact-element-flow-diagram-002.eps](#)

ECAD MODEL

[ETN.121720.edz](#)

INSTALLATION INSTRUCTIONS

[IL04716002Z](#) [IL04716005Z.pdf](#)

MCAD MODEL

[eaton-cont-blocks-mcad-drawings-kontakt-safety-boden-2.dwg](#)

[DA-CS-kontaktelement_safety_boden_2](#)

WIRING DIAGRAMS

[eaton-operating-m22-contact-element-wiring-diagram-002.eps](#)

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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