

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 Accessory Contact element
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CATALOG NUMBER	121720
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MODEL CODE	M22-KC02SMC10
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EAN	4015081195305
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PRODUCT LENGTH/DEPTH	38 mm
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PRODUCT HEIGHT	30 mm
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PRODUCT WIDTH	32 mm
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PRODUCT WEIGHT	0.032 kg
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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
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CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947- 5-1
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GLOBAL CATALOG	121720
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Product specifications

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.

Resources

CATALOGS	Flip catalog - Product Range Catalog - Command and indication eaton-rmq-titan-brochure-br047004en-en-us.pdf 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	DA-DC-00004975.pdf DA-DC-00004176.pdf DA-DC-00004134.pdf DA-DC-00004157.pdf DA-DC-00004971.pdf eaton-accessory-declaration-of-conformity-eu250868en.pdf DA-DC-00004135.pdf
DRAWINGS	eaton-general-standards-000Z425.jpg eaton-operating-contact-m22-contact-element-3d-drawing-002.eps eaton-operating-m22-contact-element-flow-diagram-002.eps
ECAD MODEL	ETN.121720.edz
FLYERS	eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf
INSTALLATION INSTRUCTIONS	IL04716005Z.pdf IL04716002Z
INSTALLATION VIDEOS	RMQ Flat Design
MCAD MODEL	DA-CD-kontaktelement safety boden 2 DA-CS-kontaktelement safety boden 2
MULTIMEDIA	MCI Multicolor Light Indicator M22 with SmartWire-DT

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	Screw connection
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 ACTUATION FORCE (DIN EN 60947-5-1)	4.8 mm
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
FORCE FOR POSITIVE OPENING - MIN	30 N
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER	0.11 W

[RMQ small E-Stop emergency-stop button](#)

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator](#)

[MCI MultiColor Light Indicator RMQ compact solution](#)

SALES NOTES

[eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf](#)

[eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf](#)

[eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf](#)

[eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf](#)

WIRING DIAGRAMS

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

POLE, CURRENT-DEPENDENT PVID	
KNOB TRAVEL	5.7 mm
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF SWITCHES (FAULT SIGNAL)	0
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
CONNECTION TYPE	Base fixing
MOUNTING METHOD	Floor fastening
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP20
MODEL	Top mounting
LAMP HOLDER	None
TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 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
RATED OPERATIONAL CURRENT (IE) AT DC-13, 500 V	0.1 A
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Contacts
OPERATING TORQUE	0.8 Nm
RATED INSULATION VOLTAGE (UI)	500 V
RATED OPERATIONAL	6 A

CURRENT (IE) AT AC-15, 115 V	
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, 60 V	1.2 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	0.5 - 1.5 mm ²
TERMINAL CAPACITY (SOLID)	0.75 - 2.5 mm ²

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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