

Specifications



Eaton 216503

Eaton Moeller® series M22 Assembly of contact element with screw terminals and fixing adapter, 1 NC M22-AK01

General specifications

PRODUCT NAME	Eaton Moeller® series M22 Accessory Contact element
CATALOG NUMBER	216503
MODEL CODE	M22-AK01
EAN	4015082165031
PRODUCT LENGTH/DEPTH	35 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	40 mm
PRODUCT WEIGHT	0.014 kg
CERTIFICATIONS	UL CSA CSA-C22.2 No. 94-91 IEC/EN 60947-5 UL Category Control No.: NKCR CE IEC 60947-5-1 UL 508 CSA-C22.2 No. 14-05 UL File No.: E29184 CSA Class No.: 3211-03 CSA File No.: 012528
CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

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.
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-	Is the panel builder's

Resources	
	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
CATALOGS	Flip catalog - Product Range Catalog - Command and indication eaton-rmq-titan-brochure-br047004en-en-us.pdf
CERTIFICATION REPORTS	000Z425
CONTROL TRAVEL DIAGRAM	eaton-operating-diagram-m22-contact-element-contact-travel-diagram-008.eps 116U023
DECLARATIONS OF CONFORMITY	DA-DC-00004971.pdf DA-DC-00004134.pdf DA-DC-00004176.pdf DA-DC-00004135.pdf DA-DC-00004157.pdf DA-DC-00004975.pdf
	eaton-operating-actuation-m22-led-element-dimensions.eps 116X101 eaton-operating-m22-contact-element-3d-drawing-006.eps eaton-general-standards-000Z425.jpg
DRAWINGS	116I206 eaton-operating-adapter-m22-contact-element-flow-diagram-002.eps 116Q003 eaton-operating-devices-adapter-flow-diagram-003.eps
ECAD MODEL	ETN.M22-AK01
INSTALLATION INSTRUCTIONS	IL04716002Z
INSTALLATION VIDEOS	RMQ Flat Design eaton-cadenas-path-temp-assemblies-bg_001_asmtpl.prj eaton-cadenas-front_view-bg_001_front.pra DA-CS-bg_001 eaton-cadenas-side_view-bg_001_side.pra
MCAD MODEL	

FREQUENCY ELECTRIC STRENGTH	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
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	5 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	15 N
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.11 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)	0
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

	eaton-cadenas-rear_view-bg_001_rear.pra
	DA-CD-bg_001
MULTIMEDIA	RMQ small E-Stop emergency-stop button easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator MCI Multicolor Light Indicator M22 with SmartWire-DT MCI MultiColor Light Indicator RMQ compact solution
	eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf
SALES NOTES	eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 216503
SYSTEM OVERVIEW	Pilot devices - selection aid
WIRING DIAGRAMS	116S048 eaton-operating-contact-m22-contact-element-wiring-diagram-009.eps

CONNECTION TYPE	Front fixing Screw connection
MOUNTING METHOD	Front fastening
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
DEGREE OF PROTECTION	IP20
MODEL	Top mounting
LAMP HOLDER	None
LIFESPAN, ELECTRICAL	700,000 Operations (at 230 V, AC-15, 3 A) 1,600,000 Operations (at 230 V, 0.5 A) 1,200,000 Operations (at 12 V, DC-13, 2.8 A) 1,000,000 Operations (at 230 V, AC-15, 1 A)
TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 mm ²
LIFESPAN, MECHANICAL	5,000,000 Operations
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
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	0.8 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:



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

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