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 assembled contact element and mounting adapter
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
GLOBAL CATALOG	216503
PRODUCT TYPE	Assembled contact element and mounting adapter

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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.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION	Does not apply, since the

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-008.eps
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk251351en.pdf eaton-contact-element-declaration-of-conformity-eu251539en.pdf
DRAWINGS	eaton-operating-actuation-m22-led-element-dimensions.eps eaton-general-standards-000Z425.jpg eaton-operating-m22-contact-element-3d-drawing-006.eps eaton-operating-devices-adapter-flow-diagram-003.eps
ECAD MODEL	ETN.M22-AK01
INSTALLATION INSTRUCTIONS	IL04716002Z
MCAD MODEL	eaton-contact-blocks-mcad-drawings-bg-001.dwg DA-CS-bg_001
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 216503
WIRING DIAGRAMS	eaton-operating-contact-m22-contact-element-wiring-diagram-009.eps

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.
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	0

CONTACTS)	
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
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	0.6 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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