

RMQ TITAN MODULAR PILOT DEVICES
216378



Overview



Specifications



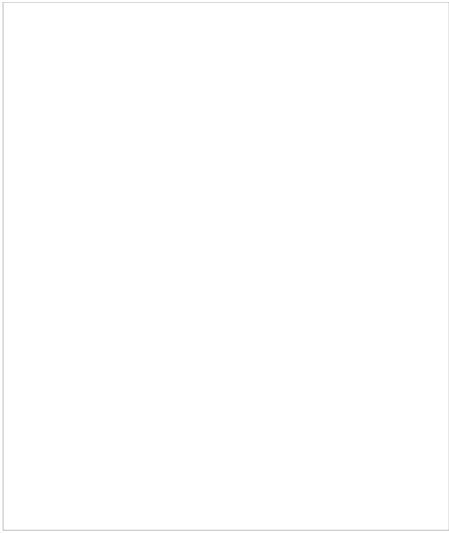
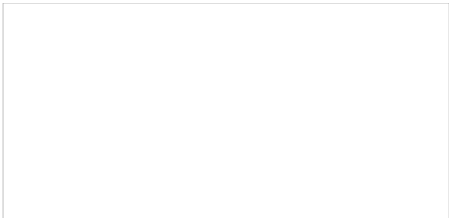
Resources

How to

216378

Eaton Moeller® series M22 Contact element, Screw
NC, 24 V 3 A, 220 V 230 V 240 V 6 A M22-K01

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Designed to work together

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111788

Eaton Moeller® series M22 Key-operated actuator, maintained, 2 positions, MS7, Key withdrawable: 0, I, Bezel: titanium

111776

Eaton Moeller® series M22 Key-operated actuator, maintained, 2 positions, MS10, Key withdrawable: 0, Bezel: titanium

279417

Eaton Moeller® series M22 Joystick, with one operating point per operating direction, With plastic shaft, 4 positions, Bezel: titanium, momentary, in every position

197009

Eaton Moeller® series M22 Illuminated pushbutton actuator, RMQ-Titanium, momentary, Sealed and undetachable, pushbutton pressel, Blue, Blank, titanium

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series M22 Accessory Contact element
		CATALOG NUMBER	216378
Product specifications	>	MODEL CODE	M22-K01
		EAN	4015082163785
		PRODUCT LENGTH/DEPTH	38 mm
		PRODUCT HEIGHT	10 mm
		PRODUCT WIDTH	32 mm
		PRODUCT WEIGHT	0.01 kg
		COMPLIANCES	CE Marked

CERTIFICATIONS	CSA Std. C22.2 No. 14-05 IEC 60947-5 CSA Std. C22.2 No. 94-91 UL 508 EN 60947-5 VDE CSA-C22.2 No. 94-91 IEC IEC 60947-5-1 CSA CSA Class No.: 3211-03 CSA-C22.2 No. 14-05 CSA File No.: 012528 UL UL Category Control No.: NKCR UL File No.: E29184 CE IEC/EN 60947-5 UL/CSA
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PRODUCT SPECIFICATIONS

CONTACT CONFIGURATION	1 NC
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	0.5 - 1.5 mm ²
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications must be observed.
LAMP HOLDER	None
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications must be observed.

MOUNTING METHOD	Front fastening
OPERATING TORQUE	0.8 Nm
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted.
SWITCHING TIME	NZM1, PN1, N(S)1: approx. 20 ms (with manual operation) NZM2, PN2, N(S)2: approx. 20 ms (with manual operation) NZM3, PN3, N(S)3: approx. 20 ms (with manual operation) NZM4, N(S)4: approx. 90 ms, the HIV does not feature manual operation)
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
FORCE FOR POSITIVE OPENING - MIN	15 N
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ACTUATOR TRAVEL AND ACTUATION FORCE (DIN EN 60947-5-1)	4.8 mm
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
TERMINAL CAPACITY (STRANDED)	0.5 - 2.5 mm ²
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
KNOB TRAVEL	5.7 mm
CONNECTION TO SMARTWIRE-DT	No
LIFESPAN, ELECTRICAL	1,200,000 Operations (at 12 V, DC-13, 2.8 A) 1,600,000 Operations (at 230 V, 0.5 A) 700,000 Operations (at 230 V, AC-15, 3 A) 1,000,000 Operations (at 230 V, AC-15, 1 A)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	2 A
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be tested.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be tested.
USED WITH	Can be used with NZM3, 4 circuit-breaker: up to three contacts can be clipped into the circuit-breaker. Can be used with NZM4 circuit-breaker: up to two contacts can be clipped into the circuit-breaker. Can be used with NZM1, 2, 3 circuit-breaker: a trip contact can be clipped into the circuit-breaker. Can be used with NZM2 size circuit-breaker: a standard contact can be clipped into the circuit-breaker.

Can be used with NZM1 circuit-breaker: a standard be clipped into the circuit-breaker.

RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
ELECTRIC CONNECTION TYPE	Screw connection
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the instruction leaflet (IL) is observed.
RATED OPERATIONAL CURRENT (IE) AT DC-13, 42 V	1.7 A
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.11 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
OPERATING FREQUENCY	3600 Operations/h
TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)	2 x (0,5 - 0,75) mm ² 1 x (0,75 - 2,5) mm ²
SHORT-CIRCUIT PROTECTION	PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit Fuseless
PRODUCT CATEGORY	Accessories
NUMBER OF SWITCHES (FAULT SIGNAL)	0
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	1.2 A
RATED OPERATIONAL CURRENT (IE)	5 A – 600 V AC 1 A - 250 V DC
RATED OPERATIONAL CURRENT (IE) AT AC-15, 115 V	6 A
TERMINAL CAPACITY (SOLID)	0.75 - 2.5 mm ²
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.
CONNECTION TYPE	Front fixing Single contact

LIFESPAN, MECHANICAL	5,000,000 Operations
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.3 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	4 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
CONTROL CIRCUIT RELIABILITY	1 failure per 5,000,000 switching operations (statistical) 5 V DC/1 mA) 1 failure per 10,000,000 switching operations (Statistical) 24 V DC/5 mA)
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP20
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	220 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	500 V
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
ACTUATING FORCE - MAX	5 N
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise. Eaton will provide heat dissipation data for the device.
TYPE	Auxiliary contact
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
SHORT-CIRCUIT PROTECTION RATING	Max. 10 A gG/gL, Fuse, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
MODEL	Top mounting and integrable
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.6 A
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
SHOCK RESISTANCE	30 g, Mechanical, According to IEC/EN 60068-2-27 11 ms
RATED INSULATION VOLTAGE (UI)	500 V
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	3 A

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

System overview

Wiring diagrams

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Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.

