

# Specifications



## Eaton 216378

Eaton Moeller® series M22 Contact element, Break contact, Front, Screw terminals, Front fixing, 1 NC, 24 V 3 A, 220 V 230 V 240 V 6 A

### General specifications

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



Powering Business Worldwide

## Product specifications

<b>USED WITH</b>	<p>Can be used with NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.</p> <p>Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker.</p> <p>Can be used with NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact can be clipped into the circuit-breaker.</p> <p>Can be used with NZM2 size circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.</p> <p>Can be used with NZM1 circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.</p>
<b>TYPE</b>	Auxiliary contact
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS</b>	Meets the product standard's requirements.

## Resources

CATALOGS	<p><a href="#">eaton-rmq-titan-brochure-br047004en-en-us.pdf</a></p> <p><a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-us.pdf</a></p> <p><a href="#">Flip catalog - Product Range Catalog - Command and indication</a></p>
CERTIFICATION REPORTS	<a href="#">000Z425</a>
CONTROL TRAVEL DIAGRAM	<a href="#">eaton-operating-diagram-m22-contact-element-contact-travel-diagram-008.eps</a>
DECLARATIONS OF CONFORMITY	<p><a href="#">eaton-accessory-declaration-of-conformity-uk251351en.pdf</a></p> <p><a href="#">eaton-accessory-declaration-of-conformity-eu250868en.pdf</a></p>
DRAWINGS	<p><a href="#">eaton-circuit-breaker-release-nzm-mccb-dimensions.eps</a></p> <p><a href="#">eaton-operating-actuation-m22-led-element-dimensions.eps</a></p> <p><a href="#">eaton-operating-contact-m22-contact-element-3d-drawing-004.eps</a></p> <p><a href="#">eaton-general-standards-000Z425.jpg</a></p> <p><a href="#">eaton-operating-devices-adapter-flow-diagram-003.eps</a></p>
ECAD MODEL	<a href="#">ETN.216378.edz</a>
FLYERS	<a href="#">eaton-rmq-titan-selection-aid-brochure-fl047002-en-us.pdf</a>
INSTALLATION INSTRUCTIONS	<p><a href="#">IL04716002Z</a></p> <p><a href="#">eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf</a></p>
INSTALLATION VIDEOS	<a href="#">RMQ Flat Design</a>
MCAD MODEL	<p><a href="#">DA-CD-kontaktelement_schraube_front</a></p> <p><a href="#">DA-CS-kontaktelement_schraube_front</a></p>
MULTIMEDIA	<a href="#">MCI Multicolor Light Indicator M22 with SmartWire-DT</a>

<b>TO NORMAL HEAT</b>	
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>ELECTRIC CONNECTION TYPE</b>	Screw connection
<b>OPERATING FREQUENCY</b>	3600 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>ACTUATING FORCE - MAX</b>	5 N
<b>ACTUATOR TRAVEL AND</b>	4.8 mm

	<a href="#">MCI MultiColor Light Indicator RMQ compact solution</a>
	<a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a>
	<a href="#">RMQ small E-Stop emergency-stop button</a>
<b>PEP ECO-PASSPORT</b>	<a href="#">eaton-contact-blocks-pep-eato-00317-v0101-en.pdf</a>
	<a href="#">eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-us.pdf</a>
<b>SALES NOTES</b>	<a href="#">eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf</a>
	<a href="#">eaton-control-circuit-devices-rmq-titan-fl144090en-en-us.pdf</a>
	<a href="#">eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf</a>
	<a href="#">eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram.eps</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-circuit-breaker-contact-m22-contact-element-wiring-diagram-008.eps</a>
	<a href="#">eaton-operating-contact-m22-contact-element-wiring-diagram-003.eps</a>

<b>ACTUATION FORCE (DIN EN 60947-5-1)</b>	
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	85 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-25 °C
<b>CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)</b>	4 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>FORCE FOR POSITIVE OPENING - MIN</b>	15 N
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.11 W
<b>KNOB TRAVEL</b>	5.7 mm
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF SWITCHES (FAULT SIGNAL)</b>	0
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>CONTACT CONFIGURATION</b>	1 NC
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	1 kA
<b>CONNECTION TYPE</b>	Front fixing Single contact
<b>MOUNTING METHOD</b>	Front fastening
<b>OVERVOLTAGE CATEGORY</b>	III

<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)
<b>DEGREE OF PROTECTION</b>	IP20
<b>MODEL</b>	Top mounting and integrable
<b>LAMP HOLDER</b>	None
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)</b>	2 x (0,5 - 0,75) mm <sup>2</sup> 1 x (0,75 - 2,5) mm <sup>2</sup>
<b>RATED OPERATIONAL CURRENT (IE)</b>	5 A – 600 V AC 1 A - 250 V DC
<b>LIFESPAN, ELECTRICAL</b>	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)
<b>TERMINAL CAPACITY (STRANDED)</b>	0.5 - 2.5 mm <sup>2</sup>
<b>LIFESPAN, MECHANICAL</b>	5,000,000 Operations
<b>SHORT-CIRCUIT PROTECTION</b>	PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>PRODUCT CATEGORY</b>	Accessories
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 500 V</b>	0.1 A
<b>SHORT-CIRCUIT PROTECTION RATING</b>	Max. 10 A gG/gL, Fuse, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
<b>OPERATING TORQUE</b>	0.8 Nm
<b>RATED INSULATION VOLTAGE (UI)</b>	500 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 115 V</b>	6 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>	6 A

<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b>	4 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V</b>	2 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>	0.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>	3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 42 V</b>	1.7 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>	1.2 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	6 A
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	500 V
<b>RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX</b>	220 V
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	0.5 - 1.5 mm <sup>2</sup>
<b>TERMINAL CAPACITY (SOLID)</b>	0.75 - 2.5 mm <sup>2</sup>
<b>SHOCK RESISTANCE</b>	30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
<b>SWITCHING TIME</b>	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 early break (with manual operation)

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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