



Contact element, Screw terminals, Front fixing, 1 N/O, 24 V 3 A, 220 V 230 V 240 V 6 A

Part no. **M22-K10**
216376

General specifications	
Product name	Eaton Moeller® series M22 Accessory Contact element
Part no.	M22-K10
EAN	4015082163761
Product Length/Depth	38 millimetre
Product height	10 millimetre
Product width	32 millimetre
Product weight	0.01 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 UL 508 EN 60947-5 IEC 60947-5 VDE IEC 60947-5-1 CE CSA-C22.2 No. 14-05 UL CSA-C22.2 No. 94-91 UL Category Control No.: NKCR UL/CSA CSA Class No.: 3211-03 UL File No.: E29184 IEC/EN 60947-5 IEC CSA File No.: 012528 CSA
Product Tradename	M22
Product Type	Accessory
Product Sub Type	Contact element
Catalog Notes	Any combinations of the auxiliary contact types are possible. General trip indication '+', when tripped by shunt release, overload release, short-circuit release or by the residual-current release due to residual-current. . Not in combination with switch-disconnector PN... On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts. Suitable for NZM1/2/3/4
Features & Functions	
Electric connection type	Screw connection
General information	
Degree of protection	IP20
Lifespan, electrical	1,000,000 Operations (at 230 V, AC-15, 1 A) 700,000 Operations (at 230 V, AC-15, 3 A) 1,200,000 Operations (at 12 V, DC-13, 2.8 A) 1,600,000 Operations (at 230 V, 0.5 A)
Lifespan, mechanical	5,000,000 Operations
Model	Top mounting and integrable
Mounting method	Front fastening
Operating frequency	3600 Operations/h
Operating torque	0.8 N-m
Overvoltage category	III
Pollution degree	3
Product category	Accessories
Rated impulse withstand voltage (Uimp)	6000 V AC
Type	Auxiliary contact
Used with	Can be used with NZM2 size circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker. Can be used with NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.

		Can be used with NZM1 circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker. Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker. Can be used with NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact can be clipped into the circuit-breaker.
Ambient conditions, mechanical		
Shock resistance		30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity (flexible with ferrule)		0.5 - 1.5 mm ²
Terminal capacity (solid)		0.75 - 2.5 mm ²
Terminal capacity (solid/flexible with ferrule)		1 x (0,75 - 2,5) mm ² 2 x (0,75 - 2,5) mm ²
Terminal capacity (stranded)		0.5 - 2.5 mm ²
Electrical rating		
Conventional thermal current I _{th} of auxiliary contacts (1-pole, open)		4 A
Rated insulation voltage (U _i)		500 V
Rated operational current (I _e)		1 A - 250 V DC 5 A – 600 V AC
Rated operational current (I _e) at AC-15, 115 V		6 A
Rated operational current (I _e) at AC-15, 220 V, 230 V, 240 V		6 A
Rated operational current (I _e) at AC-15, 380 V, 400 V, 415 V		4 A
Rated operational current (I _e) at AC-15, 500 V		2 A
Rated operational current (I _e) at DC-13, 24 V		3 A
Rated operational current (I _e) at DC-13, 42 V		1.7 A
Rated operational current (I _e) at DC-13, 60 V		1.2 A
Rated operational current (I _e) at DC-13, 110 V		0.6 A
Rated operational current (I _e) at DC-13, 220 V, 230 V		0.3 A
Rated operational current (I _e) at DC-13, 500 V		0.1 A
Rated operational voltage (U _e) at AC - max		500 V
Rated operational voltage (U _e) at DC - max		220 V
Short-circuit rating		
Short-circuit protection		PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
Short-circuit protection rating		Max. 10 A gG/gL, Fuse, Auxiliary contacts Max. 10 A gG/gL, Fuse, Contacts
Communication		
Connection to SmartWire-DT		No
Connection type		Front fixing Single contact
Actuator		
Actuating force - max		5 N
Contacts		
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)
Force for positive opening - min		0 N
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		1
Design verification		
Equipment heat dissipation, current-dependent P _{vid}		0 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		0.11 W

Rated operational current for specified heat dissipation (In)			6 A
Static heat dissipation, non-current-dependent Pvs			0 W
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-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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Bloque de contactos auxiliares (EC000041)			
Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Componente para tecnología de conmutación de baja tensión / Bloque de conmutación auxiliar (ecl@ss13-27-37-13-02 [AKN342018])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			1
Number of contacts as normally closed contact			0
Number of fault-signal switches			0
Rated operation current Ie at AC-15, 230 V		A	6
Type of electric connection			Screw connection
Model			Top mounting and integrable
Mounting method			Front fastening
Lamp holder			None