DATASHEET - M22-K10



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
EL Number (Norway)	**4355363**

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	IEC 60947-5-1 CSA Std. C22.2 No. 94-91 IEC/EN 60947-5 VDE UL Category Control No.: NKCR UL CSA Class No.: 3211-03 CE CSA-C22.2 No. 14-05 UL 508 CSA Std. C22.2 No. 14-05 CSA CSA-C22.2 No. 94-91 IEC 60947-5 UL/CSA EN 60947-5 UL File No.: E29184 CSA File No.: 012528 IEC
Product Tradename	M22
Product Type	Accessory
Product Sub Type	Contact element

Features & Functions

Electric connection type	Screw connection

General information

Degree of protection	IP20
Lifespan, electrical	1,600,000 Operations (at 230 V, 0.5 A) 1,200,000 Operations (at 12 V, DC-13, 2.8 A) 700,000 Operations (at 230 V, AC-15, 3 A) 1,000,000 Operations (at 230 V, AC-15, 1 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 NZM1, 2, 3 circuit-breaker: a trip-indicating 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 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 NZM2 size circuit-breaker: a standard 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
Ambient storage temperature - min	-25 °C
Ambient storage temperature - max	85 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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)	2 x (0,75 - 2,5) mm^2 1 x (0,75 - 2,5) mm^2
Terminal capacity (stranded)	0.5 - 2.5 mm^2
Electrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	4 A
Rated insulation voltage (Ui)	500 V
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
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, 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 (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, 500 V	0.1 A
Rated operational voltage (Ue) at AC - max	500 V
Rated operational voltage (Ue) 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, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
Communication	
Connection to SmartWire-DT	No
Connection type	Single contact Front fixing
Actuator	
Actuating force - max	5 N
Contacts	
Control circuit reliability	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)
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 Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	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) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (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

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