DATASHEET - M22-CK02

Contact element, Cage Clamp, Front fixing, 2 NC, 24 V 3 A, 220 V 230 V 240 V 4 A

Powering Business Worldwide

Part no.	**M22-CK02**
	107899
EL Number (Norway)	**4355493**

Product name	Eaton Moeller® series M22 Accessory Contact element
Part no.	M22-CK02
EAN	4015081075362
Product Length/Depth	43 millimetre
Product height	10 millimetre
Product width	38 millimetre
Product weight	0.012 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 EN 60947-5 UL 508 CSA Std. C22.2 No. 94-91 IEC 60947-5 IEC/EN 60947-5 UL File No.: E29184 CSA Class No.: 3211-03 CE UL/CSA IEC 60947-5-1 CSA-C22.2 No. 14-05 CSA UL IEC CSA-C22.2 No. 94-91 CSA File No.: 012528 UL Category Control No.: NKCR
Product Tradename	M22
Product Type	Accessory
Product Sub Type	Contact element
Catalog Notes	Any combinations of the auxiliary contact types are possible. Contacts with safety function, by positive opening to IEC/EN 60947-5-1 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 When using emergency switching off actuators M22-PV… max. 2 contact elements = 4 NC / N/O contacts
Electric connection type	Spring clamp connection
Degree of protection	IP20
Model	Top mounting and integrable
Mounting method	Front fastening
Operating frequency	3600 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Accessories
Rated impulse withstand voltage (Uimp)	4000 V AC
Type	Auxiliary contact
Used with	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 NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact 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. Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker.

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 capacity (AWG)	1 x (20 - 18) 2 x (20 - 18)
Terminal capacity (flexible with ferrule)	0.5 - 1.5 mm^2
Terminal capacity (solid)	0.5 - 1.5 mm^2
Terminal capacity (solid/flexible with ferrule)	1 x (0,5 - 1,5) mm^2 2 x (0,5 - 0,75) mm^2
Terminal capacity (stranded)	0.5 - 1.5 mm^2
Conventional thermal current ith of auxiliary contacts (1-pole, open)	4 A
Rated insulation voltage (Ui)	250 V
Rated operational current (Ie) at AC-15, 115 V	4 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at DC-13, 110 V	0.5 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 A
Rated operational current (Ie) at DC-13, 60 V	0.8 A
Rated operational voltage (Ue) at AC - max	230 V
Rated operational voltage (Ue) at DC - max	220 V
Rated conditional short-circuit current (Iq)	1 kA
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
Connection to SmartWire-DT	No
Connection type	Front fixing Double contact Cage Clamp
Actuating force - max	10 N
Actuator travel and actuation force (DIN EN 60947-5-1)	4.8 mm
Knob travel	5.7 mm
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	20 N
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	2
Number of contacts (normally open contacts)	0
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.05 W
Rated operational current for specified heat dissipation (In)	4 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 8.0

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@ss10.0.1-27-37-13-02 [AKN342013])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			0
Number of contacts as normally closed contact			2
Number of fault-signal switches			0
Rated operation current Ie at AC-15, 230 V		A	6
Type of electric connection			Spring clamp connection
Model			Top mounting and integrable
Mounting method			Front fastening
Lamp holder			None