

**Contact element M22, 1 N/C, 1 N/CL, Front fastening, Cage Clamp, Single contact, Front fixing**

**Part no.** M22-CK01D  
**262510**  
**EL Number** 4355768  
**(Norway)**

<b>General specifications</b>	
Product name	Eaton Moeller® series M22 Accessory Contact element
Part no.	M22-CK01D
EAN	4015082625108
Product Length/Depth	38 millimetre
Product height	10 millimetre
Product width	32 millimetre
Product weight	0.01 kilogram
Certifications	UL 508 CSA Class No.: 3211-03 UL Category Control No.: NKCR UL File No.: E29184 CSA-C22.2 No. 94-91 CSA CSA-C22.2 No. 14-05 CSA File No.: 012528 CE IEC 60947-5-1 UL IEC/EN 60947-5
Product Tradename	M22
Product Type	Accessory
Product Sub Type	Contact element
Catalog Notes	Contacts with safety function, by positive opening to IEC/EN 60947-5-1
<b>Features &amp; Functions</b>	
Electric connection type	Spring clamp connection
<b>General information</b>	
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
Mounting method	Front fastening
Operating frequency	3600 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V AC
<b>Ambient conditions, mechanical</b>	
Shock resistance	30 g, Mechanical, according to IEC/EN 60068-2-27, Shock duration 11 ms
<b>Climatic environmental conditions</b>	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>Terminal capacities</b>	
Terminal capacity (flexible with ferrule)	0.5 - 1.5 mm <sup>2</sup>
Terminal capacity (solid)	0.75 - 2.5 mm <sup>2</sup>
Terminal capacity (stranded)	0.5 - 2.5 mm <sup>2</sup>
<b>Electrical rating</b>	
Rated insulation voltage (Ui)	500 V

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, 110 V		0.8 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		1.7 A
Rated operational current (Ie) at DC-13, 60 V		1.2 A
<b>Short-circuit rating</b>		
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
<b>Communication</b>		
Connection to SmartWire-DT		No
Connection type		Single contact Front fixing Cage Clamp
<b>Actuator</b>		
Actuating force - max		5 N
Actuator travel and actuation force (DIN EN 60947-5-1)		4.8 mm
Knob travel		5.7 mm
<b>Contacts</b>		
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		15 N
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		1
Number of contacts (normally open contacts)		0
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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			0
Number of contacts as normally closed contact			1
Number of fault-signal switches			0
Rated operation current I <sub>e</sub> at AC-15, 230 V		A	6
Type of electric connection			Spring clamp connection
Model			Clip-on
Mounting method			Front fastening
Lamp holder			None