



**Make contact,Cage Clamp,Front**




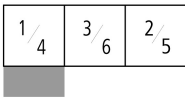
*Powering Business Worldwide™*

**Part no. M22-CK10**  
**Article no. 216384**

**Catalog No. M22-CK10Q**

**Delivery programme**




Product range			RMQ-Titan (drilling dimensions 22.5 mm)
Basic function			Accessories
Standard/Approval			UL/CSA, IEC
Construction size			NZM1/2/3/4
Single unit/Complete unit			Element
Connection technique			Spring-loaded terminals
Fixing			Front fixing
Description			Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/ Minden, Germany
Contacts			
N/O = Normally open			1 N/O
Contact sequence			
Contact sequence			

Contact travel diagram, stroke in connection with front element			
Configuration			
Protection type			IP20
Connection to SmartWire-DT			no
Connection type			Single contact
Description of HIA trip-indicating auxiliary contact			<p>General trip indication '+', when tripped by shunt release, overload release, short-circuit release or by the residual-current release due to residual-current.</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 NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker.</p> <p>Any combinations of the auxiliary contact types are possible.</p> <p>Not in combination with switch-disconnector PN...</p> <p>Marking on switch: HIA</p> <p>Labeling in FI-Block: HIAFI.</p> <p>If the trip-indicating auxiliary switch in the fault current block is used, the NC contacts operates as a N/O contact and the NC contact operates as an N/O contact.</p>
Description standard auxiliary contact HIN			<p>Switching with the main contacts Used for indicating and interlocking tasks.</p> <p>Can be used with NZM1 circuit-breaker: a standard 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 NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.</p> <p>Any combinations of the auxiliary contact types are possible.</p> <p>Marking on switch: HIN.</p> <p>On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts.</p>
For use with			NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)
<b>Notes</b>			
The following applies for the std. pack:			
M22-(C)K...: Std. pack = 20 off			

## Approvals

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type: -

## General

Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 5
Operating frequency	Operations/h		 3600
Actuating force		n	 5
Operating torque (screw terminals)		Nm	 0.8
Protection type			IP20
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	
Open		°C	- 25 - + 70
Mounting position			As required
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
Terminal capacities		mm <sup>2</sup>	

Solid		mm <sup>2</sup>	0.75 - 2.5
Stranded		mm <sup>2</sup>	0.5 - 2.5
<b>Contacts</b>			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Rated insulation voltage	U <sub>i</sub>	V	500
Overvoltage category/pollution degree			III/3
Control circuit reliability			
at 24 V DC/5 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)
at 5 V DC/1 mA	H <sub>F</sub>	Fault probability	< 5 x 10 <sup>-6</sup> (i.e. 1 failure in 5 x 10 <sup>6</sup> operations)
Max. short-circuit protective device			
Fuseless		Type	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	A	10

### Switching capacity

Rated operational current	I <sub>e</sub>	A	
AC-15			
115 V	I <sub>e</sub>	A	6
220 V 230 V 240 V	I <sub>e</sub>	A	6
380 V 400 V 415 V	I <sub>e</sub>	A	4
500 V	I <sub>e</sub>	A	2
DC-13			
42 V	I <sub>e</sub>	A	1.7
60 V	I <sub>e</sub>	A	1.2
110 V	I <sub>e</sub>	A	0.8
Lifespan, electrical			
AC-15			
230 V/0.5 A	Operations	x 10 <sup>6</sup>	1.6
230 V/1.0 A	Operations	x 10 <sup>6</sup>	1
230 V/3.0 A	Operations	x 10 <sup>6</sup>	0.7
DV-13			
12 V/2.8 A	Operations	x 10 <sup>6</sup>	1.2

### Auxiliary contacts

Rated operational voltage	U <sub>e</sub>	V	
Rated operational voltage	U <sub>e</sub>	V AC	500
Rated operational voltage, max.	U <sub>e</sub>	V DC	220
Conventional thermal current	I <sub>th</sub> =I <sub>e</sub>	CSA	4
Rated operational current	I <sub>e</sub>	A	

Different rated operational currents when used as auxiliary contact for NZM circuit-breaker				bei AC = 50/60 Hz	M22- K...	M22- CK...	XHIV
				AC-15	4	4	4
				15 V			
				230 V	4	4	4
				400 V	2	-	2
				500 V	1	-	1
				DC-13	3	3	3
				4 V			
				42 V	1.7	1	1.5
				60 V	1.2	0.8	0.8
				110 V	0.8	0.5	0.5
				220 V	0.3	0.2	0.2
Short-circuit protection							
max. fuse		A gG/ gL	10				
Max. miniature circuit-breaker		A	FAZ-B6/B1				
Operating times							
				Early-make time of the HIV compared to the main contacts during with make and break switching.  (switch times with manual operation):  NZM1, PN1, N(S)1: ca. 20 ms  NZM2, PN2, N(S)2: ca. 20 ms  NZM3, PN3, N(S)3: ca. 20 ms  NZM4, N(S)4: approx. 90 ms, the HIV switch early <b>Offswitching not forward.</b>			
Terminal capacities		mm <sup>2</sup>					
Solid or flexible conductor, with ferrule		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)				
Other technical data (sheet catalogue)			Maximum equipment and position of the internal accessories				

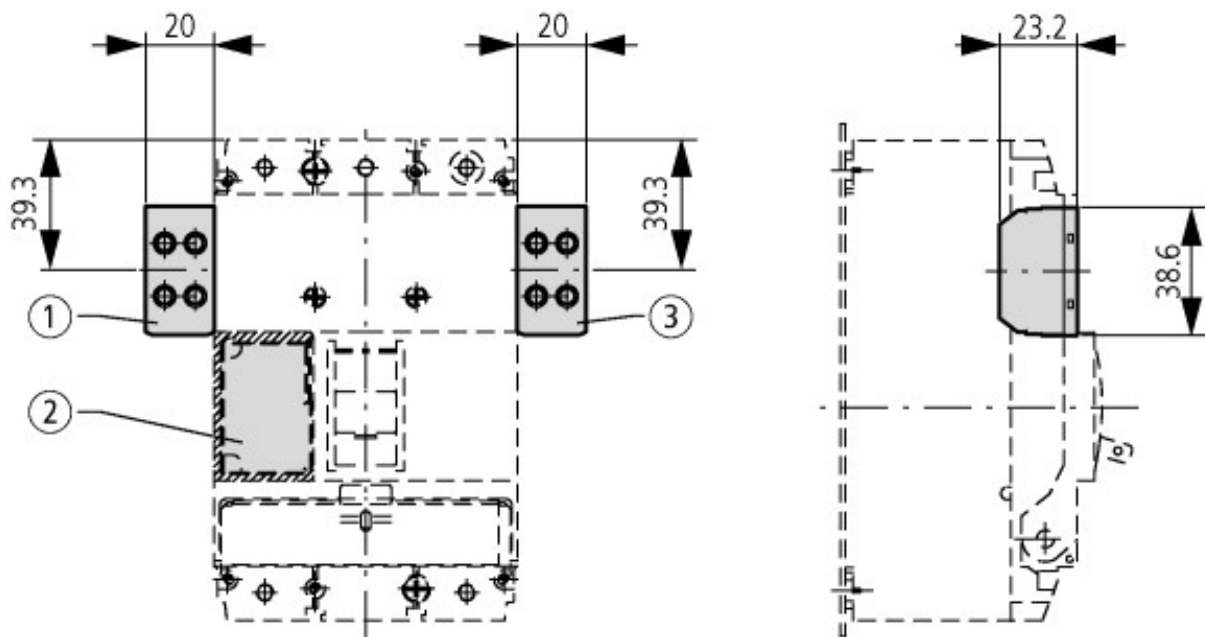
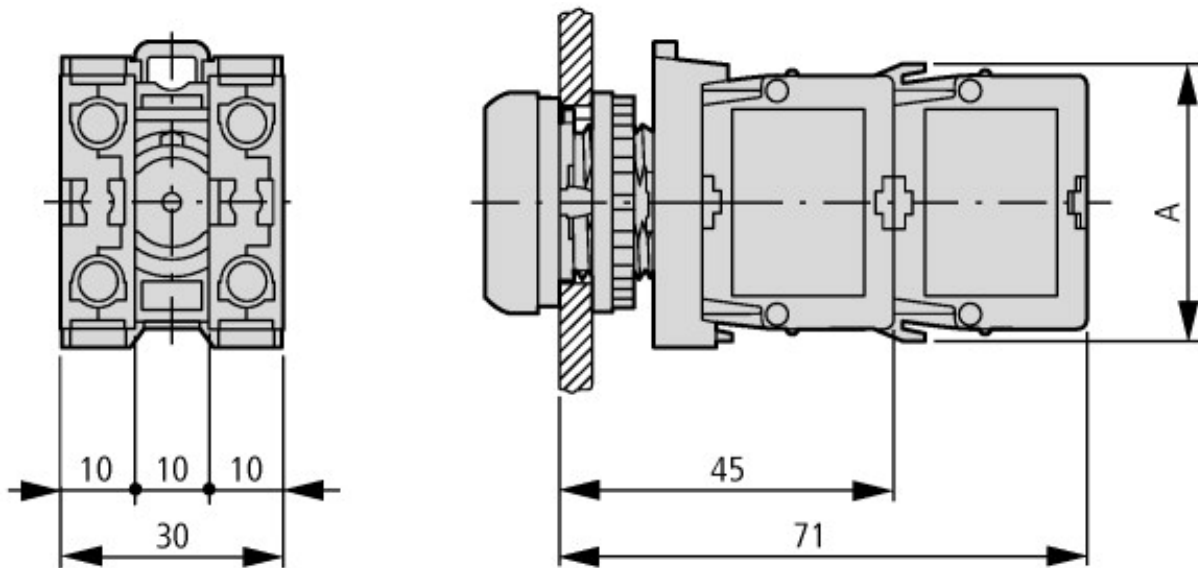
## Technical data ETIM 5.0

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@ss8-27-37-13-02 [AKN342009])

Number of contacts as change-over contact			0
Number of contacts as normally open contact			1
Number of contacts as normally closed contact			0
Rated operation current I <sub>e</sub> at AC-15, 230 V		A	6
Type of electric connection			Spring clamp connection
Mounting method			Front fastening

## Dimensions



Pushbutton with M22-(C)K...  
 Pushbutton with M22-(C) LED... + M22-XLED...

**Additional product information (links)**

IL04716002Z (AWA1160-1745) RMQ-Titan System

IL04716002Z (AWA1160-1745) RMQ-Titan System

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04716002Z2013\\_08.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2013_08.pdf)