

**Make contact,Cage Clamp,Front**



Powering Business Worldwide™

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

**Catalog No.** M22-CK10Q

**Delivery programme**

Product range

Basic function  
 Standard/Approval  
 Construction size  
 Single unit/Complete unit  
 Connection technique  
 Fixing  
 Description

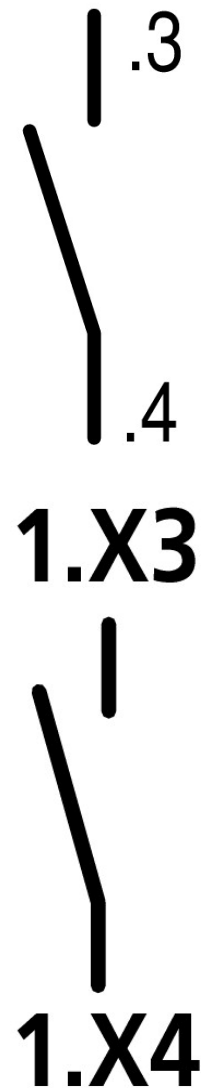
Contacts

N/O = Normally open  
 Contact sequence

RMQ-Titan (drilling dimensions 22.5 mm)  
 Accessories  
 UL/CSA, IEC  
 NZM1/2/3/4  
 Element  
 Spring-loaded terminals  
 Front fixing  
 Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany

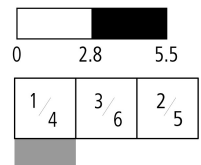
1 N/O

Contact sequence



Contact travel diagram, stroke in connection with front element

Configuration



Protection type  
 Connection to SmartWire-DT  
 Connection type  
 Description of HIA trip-indicating auxiliary contact

IP20  
 no  
 Single contact  
 General trip indication '+', when tripped by shunt release, overload release, short-circuit release or by the residual-current release due to residual-current.  
 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.  
 Any combinations of the auxiliary contact types are possible.  
 Not in combination with switch-disconnector PN...  
 Marking on switch: HIA  
 Labeling in FI-Block: HIAFI.  
 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.  
 Switching with the main contacts Used for indicating and interlocking tasks.  
 Can be used with NZM1 circuit-breaker: a standard 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 NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker.  
 Any combinations of the auxiliary contact types are possible.  
 Marking on switch: HIN.  
 On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts.  
 NZM1(-4), 2(-4), 3(-4), 4(-4)  
 PN1(-4), 2(-4), 3(-4)  
 N(S)1(-4), 2(-4), 3(-4), 4(-4)

Description standard auxiliary contact  
 HIN

For use with




**Notes**

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

Terminal capacities

Solid

Stranded

## Contacts

Rated impulse withstand voltage

Rated insulation voltage

Overvoltage category/pollution degree

Control circuit reliability

at 24 V DC/5 mA

at 5 V DC/1 mA

Max. short-circuit protective device

Fuseless

Fuse

## Switching capacity

Rated operational current

AC-15

115 V

220 V 230 V 240 V

380 V 400 V 415 V

500 V

DC-13

42 V

60 V

110 V

Lifespan, electrical

AC-15

230 V/0.5 A

230 V/1.0 A

230 V/3.0 A

DV-13

12 V/2.8 A

## Auxiliary contacts

Rated operational voltage

Rated operational voltage

Rated operational voltage, max.

Conventional thermal current

Rated operational current

	g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
	mm <sup>2</sup>	
	mm <sup>2</sup>	0.75 - 2.5
	mm <sup>2</sup>	0.5 - 2.5

U <sub>imp</sub>	V AC	6000
U <sub>i</sub>	V	500
		III/3
H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> (i.e. 1 failure to 10 <sup>7</sup> operations)
H <sub>F</sub>	Fault probability	< 5 x 10 <sup>-6</sup> (i.e. 1 failure in 5 x 10 <sup>6</sup> operations)
	Type	PKZM0-10/FAZ-B6/1
gG/gL	A	10

I <sub>e</sub>	A	
I <sub>e</sub>	A	6
I <sub>e</sub>	A	6
I <sub>e</sub>	A	4
I <sub>e</sub>	A	2
I <sub>e</sub>	A	1.7
I <sub>e</sub>	A	1.2
I <sub>e</sub>	A	0.8
Operations	x 10 <sup>6</sup>	1.6
Operations	x 10 <sup>6</sup>	1
Operations	x 10 <sup>6</sup>	0.7
Operations	x 10 <sup>6</sup>	1.2

U <sub>e</sub>	V	
U <sub>e</sub>	V AC	500
U <sub>e</sub>	V DC	220
I <sub>th</sub> =I <sub>e</sub>	CSA	4
I <sub>e</sub>	A	

Different rated operational currents when used as auxiliary contact for NZM circuit-breaker

				M22-K...	M22-CK...	XHIV
			bei AC = 50/60 Hz			
		Bemessungsbetriebsstrom				
		AC-15	15 le A	4	4	4
		V				
		230	230 le A	4	4	4
		V				
		400	400 le A	2	-	2
		V				
		500	500 le A	1	-	1
		V				
		DC-134	134 le A	3	3	3
		V				
		42	42 le A	1.7	1	1.5
		V				
		60	60 le A	1.2	0.8	0.8
		V				
		110	110 le A	0.8	0.5	0.5
		V				
		220	220 le A	0.3	0.2	0.2
		V				
Short-circuit protection						
max. fuse		A	10			
		gG/ gL				
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			

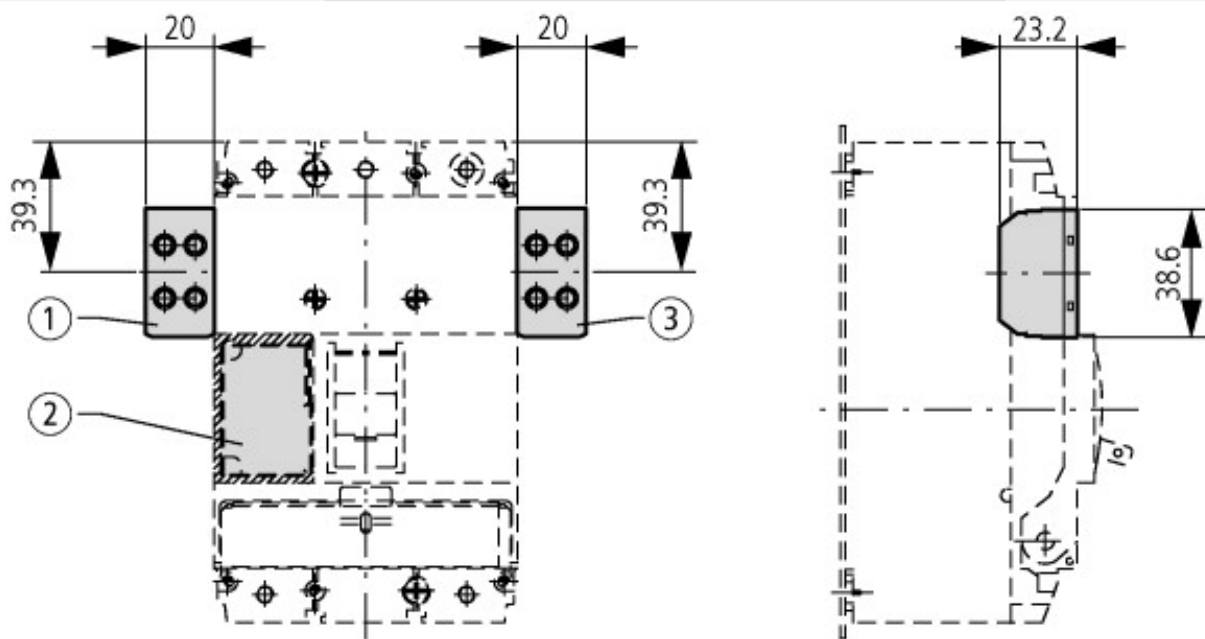
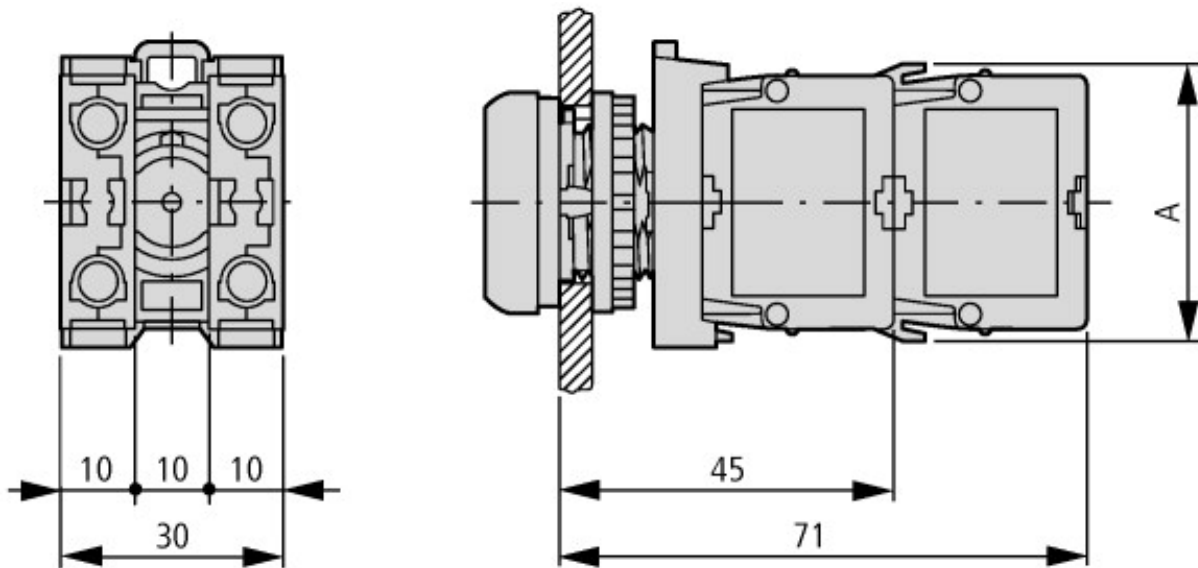
## Technical data ETIM 5.0

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)