Make contact,Cage Clamp,Front

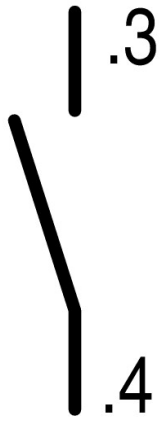
Part no. **M22-CK10**

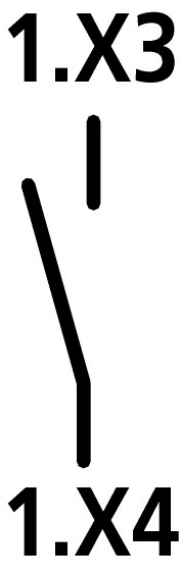
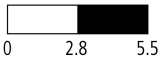
Article no. **216384**

Powering Business Worldwide™

Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH

Program

Range			RMQ-Titan (drilling dimensions 22.5 mm)
Basic function			Accessories
Range			Accessories
Accessories			Standard auxiliary contact, trip-indicating auxiliary switch
Standard/Approval			UL/CSA, IEC
Construction size			NZM1/2/3/4
Single unit/Complete unit			Element
Connection technique			Cage Clamp
Fixing			Front fixing
Auxiliary contacts: = safety function, by positive opening to IEC/EN 60947-5-1			
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 standard auxiliary contact HIN			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.
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)

Approbationen

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 CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type: -

General

Standards			IEC/EN 60947 VDE 0660
Lifespan, mechanical	Operations	x 10^6	> 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^2	
Solid		mm^2	0.75 - 2.5
Stranded		mm^2	0.5 - 2.5

Contacts

Rated impulse withstand voltage	U_{imp}	V AC	6000
Rated insulation voltage	U_i	V	500
Overvoltage category/pollution degree			III/3
Control circuit reliability			
at 24 V DC/5 mA	H_F	Fault probability	$< 10^{-7}$ (i.e. 1 failure to 10^7 operations)
at 5 V DC/1 mA	H_F	Fault probability	$< 5 \times 10^{-6}$ (i.e. 1 failure in 5×10^6 operations)
Max. short-circuit protective device			
Fuseless		Type	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	A	10

Switching capacity

Rated operational current	I_e	A	
AC-15			
115 V	I_e	A	4
230 V	I_e	A	4
400 V	I_e	A	2
500 V	I_e	A	2
DC-13			
24 V	I_e	A	3
42 V	I_e	A	1.7
60 V	I_e	A	1.2
110 V	I_e	A	0.8
220 V	I_e	A	0.3
Lifespan, electrical			
AC-15			
230 V/0.5 A	Operations	x 10^6	1.6
230 V/1.0 A	Operations	x 10^6	1
230 V/3.0 A	Operations	x 10^6	0.7
DV-13			
12 V/2.8 A	Operations	x 10^6	1.2

Auxiliary contacts

Rated operational voltage	U_e	V	
Rated operational voltage	Ue	V AC	500
Rated operational voltage, max.	Ue	V DC	220
Conventional thermal current	Ith=Ie	CSA	4
Rated operational current	I_e	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	115 V	Ie	A	4	4	4
				230 V	Ie	A	4	4	4
				400 V	Ie	A	2	-	2
				500 V	Ie	A	1	-	1
			DC-13	24 V	Ie	A	3	3	3
				42 V	Ie	A	1.7	1	1.5
				60 V	Ie	A	1.2	0.8	0.8
				110 V	Ie	A	0.8	0.5	0.5
				220 V	Ie	A	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 **Off**switching **not** forward.						
Terminal capacities		mm^2							
Solid or flexible conductor with ferrule		mm^2	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						
Indoor and protected outdoor installation									

Technical data according to ETIM 4.0

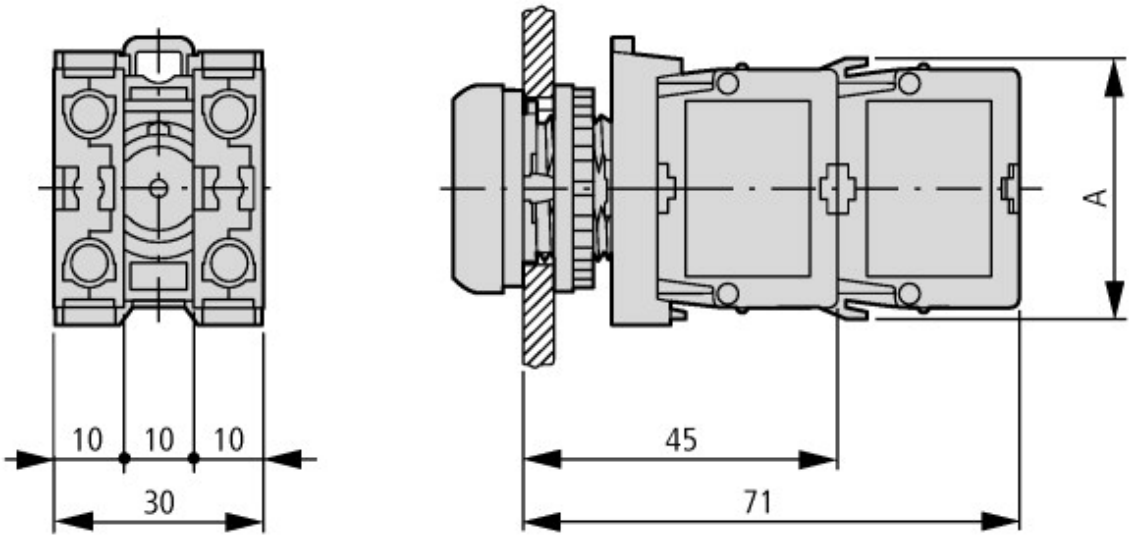
Suitable for earth leakage circuit breaker		No
Type of electric connection		Spring clamp connection
Rated operation current Ie at AC-15, 230 V	A	6
Mounting type		Front mount
Suitable for pendant switch		No
Suitable for front element		YES
Suitable for circuit-breakers		No
Suitable for safety position switches		No
Suitable for step switches		No
Suitable for pressure switch/selector switch actuator		YES
Suitable for cam switches		No
Suitable for motor protective circuit breakers		No
Suitable for series-mounting relays		No
Suitable for solenoid		No
Suitable for compact switch-disconnector		No
Suitable for miniature circuit-breakers		No
Suitable for pulse relay		No
Suitable for contactor relay relay		No
Suitable for pendant pushbutton		No
Suitable for residual current device		No

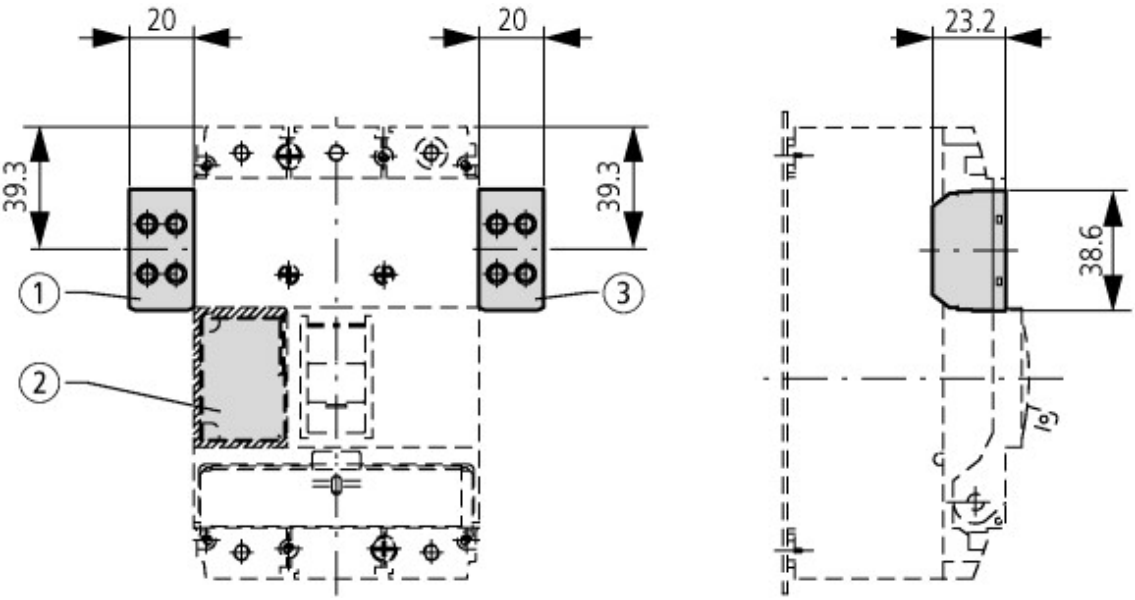
Number of contacts as change-over contact			0
Number of contacts as N/O			1
Number of contacts as NC			0
Suitable for impulse relays			No
Suitable for position switches			No
Suitable for switch-disconnector/residual current device			No
Suitable for contactors			No
Suitable for installation contactor / installation relay			No

CAD-Data

Product standards CAD data: http://eaton-moeller.partcommunity.com/PARTcommunity/Portal/eaton-moeller

Dimensions





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

Additional product information (links)

IL04716002Z (AWA1160-1745) RMQ-Titan System	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2011_03.pdf
Installation Instructions	http://www.moeller.net/en/support/instructions_awa.jsp
Documentation	http://www.moeller.net/en/support/index.jsp
Engineering	
equiped with auxiliary switches, time differences	ftp://ftp.moeller.net/DOCUMENTATION/PDF/GB/PRO_NZM_time difference_D.PDF