Contact element, 1 N/C, front mount, 6. contact, spring clamp connection



Part no. Article no. Catalog No.

M22-CK01 216385 M22-CK01Q



Delivery programme

benvery 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
Basic function accessories	Contact elements
Connection technique	Spring-loaded terminals
Fixing	Front fixing
Description	Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany
Contacts	
N/C = Normally closed	1 NC 😁
Notes) = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence	1.X1
Contact travel diagram, stroke in connection with front element	0 1.2 5.5
Configuration	1/4 $3/6$ $2/5$
Degree of Protection	IP20 IEC/EN 60529
Connection to SmartWire-DT	no
Connection type	Single contact
Description of HIA trip-indicating auxiliary 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: 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.
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)

A	p	p	ro	va	ls

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 ⁶	>5
Operating frequency	Operations/h		<
	oporationo, n		≦ ₃₆₀₀
Actuating force		n	≦₅
Degree of Protection			IP20 IEC/EN 60529
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
Storage		°C	- 40 - + 80
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
Flexible with ferrule			0.5 - 1.5
Contacts		mm ²	
Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated insulation voltage	U _{imp}	V	500
	0 ₁	v	
Overvoltage category/pollution degree			111/3
Control circuit reliability at 24 V DC/5 mA	u.	Foult	.7 7
	H _F	probabilit	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations)
at 5 V DC/1 mA	H _F	Fault probabilit	< 5 x 10 ⁻⁶ (i.e. 1 failure in 5 x 10 ⁶ operations) γ
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	A	10
Switching capacity			
Rated operational current	l _e	A	
Rated operational current AC-15		A	
Rated operational current AC-15 115 V	I _e	A A	6
Rated operational current AC-15 115 V 220 V 230 V 240 V		A A A	6 6
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V	I _e	A A	6 6 4
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V	le le	A A A	6 6
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13	le le	A A A A	6 6 4 2
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V	le le	A A A A	6 6 4
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13	le le le	A A A A	6 6 4 2
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V	le le le	A A A A A A	6 6 4 2 3
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V	le le le le le	A A A A A A A	6 6 4 2 3 1.7
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V	le le le le le	A A A A A A A A	6 6 4 2 3 1.7 1.2
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V	Ie Ie Ie Ie Ie Ie Ie	A A A A A A A A A	6 6 6 4 2 3 1.7 1.2 0.8
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V	Ie Ie Ie Ie Ie Ie Ie	A A A A A A A A A	6 6 6 4 2 3 1.7 1.2 0.8
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V	Ie Ie Ie Ie Ie Ie Ie	A A A A A A A A A	6 6 6 4 2 3 1.7 1.2 0.8
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15	e e e e e e e	A A A A A A A A A A A	6 6 6 4 2 3 1.7 1.2 0.8 0.3
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/0.5 A	Ie Ie Ie Ie Ie Ie Ie Ie Ie Operations	A A A A A A A A A A X 10 ⁶	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/0.5 A 230 V/1.0 A	Ie Operations Operations	A A A A A A A A A A A A X 10 ⁶ X 10 ⁶	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6 1
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/1.0 A 230 V/3.0 A	Ie Ie Ie Ie Ie Ie Ie Ie Operations Operations	A A A A A A A A A A A X 10 ⁶ X 10 ⁶	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6 1 0.7
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 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	Ie Ie Ie Ie Ie Ie Ie Ie Operations Operations	A A A A A A A A A A A A X 10 ⁶ X 10 ⁶	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6 1
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/1.0 A 230 V/3.0 A DV-13 12 V/2.8 A	Ie Ie Ie Ie Ie Ie Ie Ie Operations Operations	A A A A A A A A A A A X 10 ⁶ X 10 ⁶	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6 1 0.7
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/0.5 A 230 V/1.0 A 230 V/1.0 A AC-13 Lifespan, electrical AC-15 230 V/0.5 A 230 V/1.0 A AC-13 DV-13 12 V/2.8 A	IeIeIeIeIeIeIeIeIeOperationsOperationsOperationsOperationsOperations	A A A A A A A A A A A A A A A X 10 ⁶ X 10 ⁶ X 10 ⁶ V	6 6
Rated operational current AC-15 115 V 220 V 230 V 240 V 380 V 400 V 415 V 500 V DC-13 24 V 42 V 60 V 110 V 220 V Lifespan, electrical AC-15 230 V/1.0 A 230 V/3.0 A DV-13 12 V/2.8 A	Ie Ie Ie Ie Ie Ie Ie Ie Operations Operations Operations Operations Operations Ue Ue Ue	A A A A A A A A A A A A A A A A A A A	6 6 6 4 2 3 1.7 1.2 0.8 0.3 1.6 1 0.7

Conventional thermal current	$I_{th} = I_e$	CSA	4					
Rated operational current	l _e	А						
Different rated operational currents when used as auxiliary contact for NZM circuit-breaker			Damagan sebasishasi	bei AC = 50/60 Hz		M22- K	M22- CK	XHIV
			Bemessungsbetriebsst AC-1 5 15 V	le	А	4	4	4
			230 V	le	A	4	4	4
			400 V	le	A	2	-	2
			500 V DC-1 3 4 V	le le	A A	1 3	- 3	1 3
			42 V	le	A	3 1.7	1	5 1.5
			60 V	le	A	1.2	0.8	0.8
			110	le	Â	0.8	0.5	0.5
			V			0.0	0.0	010
			220 V	le	А	0.3	0.2	0.2
Short-circuit protection								
max. fuse		A gG/gL	10					
Max. miniature circuit-breaker		А	FAZ-B6/B1					
Operating times								
			Early-make time of the break switching.	HIV comp	ared to t	ne main cor	ntacts duri	ng with make an
			(switch times with mar	nual opera	tion):			
			NZM1, PN1, N(S)1: ca.	20 ms				
			NZM2, PN2, N(S)2: ca.					
			NZM3, PN3, N(S)3: ca.			h and Off	ava ita bir -	n né fo u voud
Ferminal capacities		2	NZM4, N(S)4: approx. S	eu ms, the	niv swite	in early Uff s	switching	not forward.
ommu capacitico		mm ²						
Solid or flexible conductor, with ferrule		mm ²	1 x (0,5 - 1,5) 2 x (0,5 - 0,75)					
)ther technical data (sheet catalogue)			Maximum equipment a	and nositio	n of the i	nternal acc	assorias	

Indoor and protected outdoor installation

Data for design verification according to IEC/EN 61439

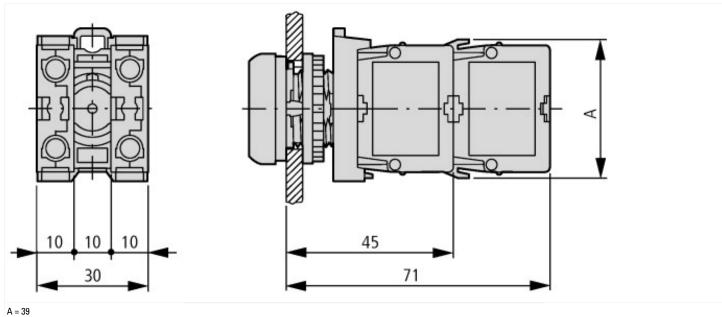
Technical data for design verification			
Heat dissipation capacity	P _{diss}	W	0
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 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			0	
Number of contacts as normally closed contact			1	
Rated operation current le at AC-15, 230 V		А	6	
Type of electric connection			Spring clamp connection	
Mounting method			Front fastening	

Dimensions



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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
Maximum equipment and position of the internal accessories	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178