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

Powering Business Worldwide*

Part no. M22-CK10
Article no. 216384
Catalog No. M22-CK10Q

Delivery programmeProduct range

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/O = Normally open	1 N/O
Contact sequence	1.3
Contact sequence	1.X3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Contact travel diagram, stroke in connection with front element	0 2.8 5.5
Configuration	1/4 3/6 2/5
Degree of Protection	IP20
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. 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: HIAA 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)

Technical data

Lifespan, mechanical

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Hi	an	e	rai

Operating frequency	Operations/h		≦ ₃₆₀₀
Actuating force		n	≤ ₅
Degree of Protection			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
Terminal capacities		mm ²	
Solid		mm ²	0.75 - 2.5
Stranded		mm ²	0.5 - 2.5
Flexible with ferrule		mm ²	0.5 - 1.5
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			III/3
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probabilit	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations)
at 5 V DC/1 mA	H _F	Fault probabilit	$< 5 \times 10^{-6}$ (i.e. 1 failure in 5×10^{6} operations)
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	Α	10
Switching capacity			
Rated operational current	I _e	Α	
AC-15			

Operations x 10⁶

> 5

445.1/			
115 V	l _e	A	6
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	l _e	Α	4
500 V	l _e	Α	2
DC-13			
24 V	le	Α	3
42 V	l _e	Α	1.7
60 V	l _e	Α	1.2
110 V	l _e	Α	0.8
220 V	l _e	Α	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	$I_{th} = I_e$	CSA	4
Rated operational current	l _e	Α	
circuit-breaker			(C)K10(01)CK11(02) (20) bei
			400 le A 2 - 2 V 500 le A 1 - 1 V DC-134 V le A 3 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V
Short-circuit protection			400 le A 2 - 2 V 500 le A 1 - 1 V DC-124 V le A 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V
max. fuse		A gG/gL	400 le A 2 - 2 V 500 le A 1 - 1 V DC-134 V le A 3 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V
max. fuse Max. miniature circuit-breaker		A gG/gL A	400 le A 2 - 2 V 500 le A 1 - 1 V DC-124 V le A 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V
max. fuse			400 le A 2 - 2 V 500 le A 1 - 1 V DC-134 V le A 3 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V
max. fuse Max. miniature circuit-breaker			400 le A 2 - 2 V 500 le A 1 - 1 V DC-124 V le A 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V 10 FAZ-B6/B1 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
max. fuse Max. miniature circuit-breaker Operating times		A	400 le A 2 - 2 V 500 le A 1 - 1 V DC-124 V le A 3 3 3 42 V le A 1.7 1 1.5 60 V le A 1.2 0.8 0.8 110 le A 0.6 0.5 0.5 V 220 le A 0.3 0.2 0.2 V 10 FAZ-B6/B1 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

Technical data for design verification

Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.11
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

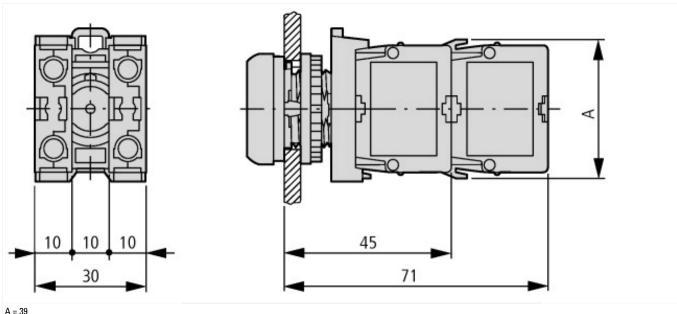
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl.@ss8.1-27-37-13-02 [AKN342010])

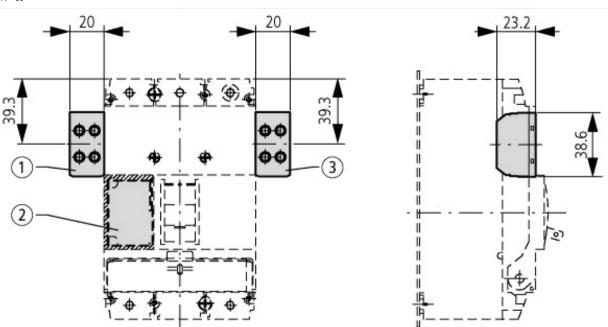
(eci@ss8.1-2/-3/-13-02 [AKN342010])		
Number of contacts as change-over contact		0
Number of contacts as normally open contact		1
Number of contacts as normally closed contact		0
Rated operation current le at AC-15, 230 V	А	6
Type of electric connection		Spring clamp connection
Model		Top mounting and integrable

Approvals

P. P	
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

Dimensions





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

Additional product information (links)

Additional product information (mixs)		
IL04716002Z (AWA1160-1745) RMQ-Titan System		
IL04716002Z (AWA1160-1745) RMQ-Titan System	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf	
Maximum equipment and position of the internal accessories	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178	