Contact element, 2N/O, front mount, spring clamp connection



M22 1078 M22

Part no.

Article no.

Catalog No.

M22-CK20 107898 M22-CK20Q



Delivery programme

bonnony programmo		
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		Cage Clamp
Fixing		Front fixing
Description		When using emergency switching off actuators M22-PV max. 2 contact elements = 4 NC / N/O contacts Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany
Contacts		
N/O = Normally open		2 N/O
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1		
Minimum force for positive opening	Ν	0
Contact sequence		$ \begin{array}{c} 1.3 \\ 1.4 \\ 1.4 \end{array} \right) \begin{array}{c} 1.3 \\ 1.4 \\ 1.4 \end{array} \right) $
Contact sequence		1.X3 1.X3 $\begin{pmatrix} I \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\$
Contact travel diagram, stroke in connection with front element		0 3.6 5.5
Degree of Protection		IP20
Connection to SmartWire-DT		no
Connection type		Double 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: 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 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 General

delleral			
Standards			IEC 60947-5-1
Operating frequency	Operations/h		≦ ₃₆₀₀
Actuating force		n	≦ ₁₀
Degree of Protection			IP20
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +70
Terminal capacities		mm ²	
Solid		mm ²	0.5 - 1.5
Stranded		mm ²	0.5 - 1.5
Flexible with ferrule		mm ²	0.5 - 1.5
Contacts			
Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	Ui	V	250
Overvoltage category/pollution degree			111/3
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probabilit	< 10-7 (i.e. 1 failure to 107 operations) Y
at 5 V DC/1 mA	H _F	Fault probabilit	< 5 x 10-6 (i.e. 1 failure to 5 x 106 operations) Y
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	А	10
Switching capacity			
Rated operational current	l _e	A	
AC-15			
115 V	le	A	4
220 V 230 V 240 V	l _e	А	4
DC-13			
24 V	le	А	3
42 V	l _e	А	1
60 V	l _e	А	0.8
110 V	le	А	0.5
220 V	l _e	A	0.3
Auxiliary contacts			
Rated operational voltage	U _e	V	
Rated operational voltage	Ue	V AC	230
Rated operational voltage, max.	Ue	V DC	220
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				bei AC = 50/60 Hz		M22- (C)K10(0	M22- 1)CK11(02) (20)	XHIV
			Bemessungsbetriebsstro AC-1515	om Te	А	4	4	4
			V					
			230 V	le	A	4	4	4
			400	le	А	2	-	2
			V 500	le	А	1	-	1
			V	1.		2	•	•
			DC-1 2 4 V 42 V	le le	A A	3 1.7	3 1	3 1.5
			42 V 60 V	le	A	1.2	0.8	0.8
			110	le	Â	0.6	0.5	0.5
			V	10		0.0	0.0	0.0
			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 H break switching. (switch times with manu			ie main cont	acts during	with make and
			NZM1, PN1, N(S)1: ca. 20					
			NZM2, PN2, N(S)2: ca. 20	0 ms				
			NZM3, PN3, N(S)3: ca. 20					
			NZM4, N(S)4: approx. 90	ms, the l	HIV switc	h early Off s	witching na	t forward.
Terminal capacities		mm ²						
Solid or flexible conductor, with ferrule		mm ²	1 x (0,5 - 1,5) 2 x (0,5 - 0,75)					
		AWG	1 x (20 - 18) 2 x (20 - 18)					
Other technical data (sheet catalogue)			Maximum equipment and	d positior	n of the ir	nternal acce	ssories	

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	4
Heat dissipation per pole, current-dependent	P _{vid}	W	0.05
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 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 6.0

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

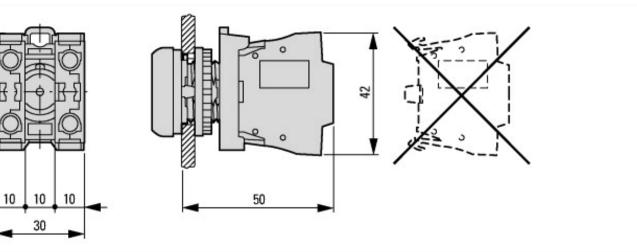
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss8.1-27-37-13-02 [AKN342010])

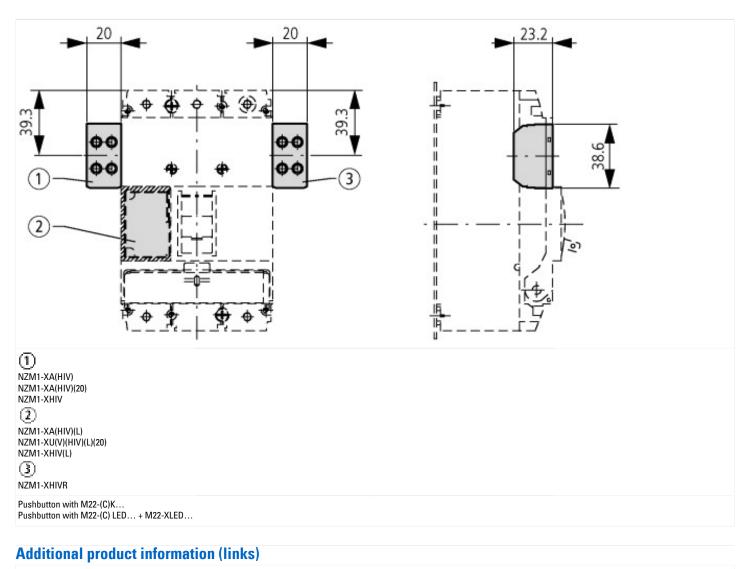
Number of contacts as change-over contact		0
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		0
Rated operation current le at AC-15, 230 V	А	6
Type of electric connection		Spring clamp connection
Model		Top mounting and integrable
Mounting method		Front fastening

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: -

Dimensions





IL04716002Z (AWA1160-1745) RMQ-Titan System 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://ccat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178