



N/O-N/C contact, Cage Clamp





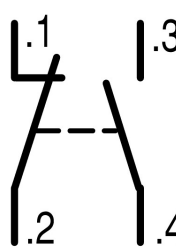
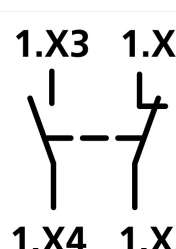
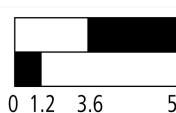
Powering Business Worldwide™

Part no. M22-CK11

Article no. 107940

General trip indication '+', when tripped by voltage release, overload release, short-circuit release or by the residual-current release due to residual-current.

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
Description		When using emergency switching off actuators M22-PV... max. 2 contact elements = 4 NC / N/O contacts
Auxiliary contacts:  = safety function, by positive opening to IEC/EN 60947-5-1		
N/O = Normally open		1 S
N/C = Normally closed		1 N/C 
Contact sequence		
Contact sequence		
Contact travel diagram, stroke in connection with front element		
Protection type		IP20
Connection to SmartWire-DT		no
Connection type		Double 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

UL approval	Yes
CSA approval	Yes
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
Operating frequency	Operations/ h		\leq 3600
Actuating force		n	\leq 10
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
Storage		°C	- 0 - + 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	0.5 - 1.5
Stranded		mm ²	0.5 - 1.5
Flexible with ferrule		mm ²	0.5 - 1.0

Contacts

Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated insulation voltage	U_i	V	250
Overvoltage category/pollution degree			III/3
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
DC-13			
24 V	I_e	A	3
42 V	I_e	A	1
60 V	I_e	A	0.8
110 V	I_e	A	0.5
220 V	I_e	A	0.2

Auxiliary contacts

Rated operational voltage	U_e	V	
Rated operational voltage	U_e	V AC	230

Rated operational voltage, max.	U _e	V DC	220																																																																														
Conventional thermal current	I _{th} =I _e	CSA	4																																																																														
Rated operational current	I _e	A																																																																															
Different rated operational currents when used as auxiliary contact for NZM circuit-breaker			<table border="1"> <thead> <tr> <th></th> <th></th> <th></th> <th>M22-K...</th> <th>M22-CK...</th> <th>XHIV</th> </tr> </thead> <tbody> <tr> <td></td> <td>bei AC = 50/60 Hz</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Bemessungsbetriebsstrom</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>AC-15</td> <td>I_e</td> <td>A</td> <td>4</td> <td>4</td> </tr> <tr> <td></td> <td>15 V</td> <td>I_e</td> <td>A</td> <td>4</td> <td>4</td> </tr> <tr> <td></td> <td>230 V</td> <td>I_e</td> <td>A</td> <td>4</td> <td>4</td> </tr> <tr> <td></td> <td>400 V</td> <td>I_e</td> <td>A</td> <td>2</td> <td>-</td> </tr> <tr> <td></td> <td>500 V</td> <td>I_e</td> <td>A</td> <td>1</td> <td>-</td> </tr> <tr> <td></td> <td>DC-124</td> <td>I_e</td> <td>A</td> <td>3</td> <td>3</td> </tr> <tr> <td></td> <td>42 V</td> <td>I_e</td> <td>A</td> <td>1.7</td> <td>1</td> </tr> <tr> <td></td> <td>60 V</td> <td>I_e</td> <td>A</td> <td>1.2</td> <td>0.8</td> </tr> <tr> <td></td> <td>110 V</td> <td>I_e</td> <td>A</td> <td>0.8</td> <td>0.5</td> </tr> <tr> <td></td> <td>220 V</td> <td>I_e</td> <td>A</td> <td>0.3</td> <td>0.2</td> </tr> </tbody> </table>				M22-K...	M22-CK...	XHIV		bei AC = 50/60 Hz						Bemessungsbetriebsstrom						AC-15	I _e	A	4	4		15 V	I _e	A	4	4		230 V	I _e	A	4	4		400 V	I _e	A	2	-		500 V	I _e	A	1	-		DC-124	I _e	A	3	3		42 V	I _e	A	1.7	1		60 V	I _e	A	1.2	0.8		110 V	I _e	A	0.8	0.5		220 V	I _e	A	0.3	0.2
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max. fuse		A gG/ gL	10																																																																														
Max. miniature circuit-breaker		A	FAZ-B6/B1																																																																														
Operating times			<p>Early-make time of the HIV compared to the main contacts during with make and break switching.</p> <p>(switch times with manual operation):</p> <p>NZM1, PN1, N(S)1: ca. 20 ms</p> <p>NZM2, PN2, N(S)2: ca. 20 ms</p> <p>NZM3, PN3, N(S)3: ca. 20 ms</p> <p>NZM4, N(S)4: approx. 90 ms, the HIV switch early Offswitching not forward.</p>																																																																														
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 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 I _e 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

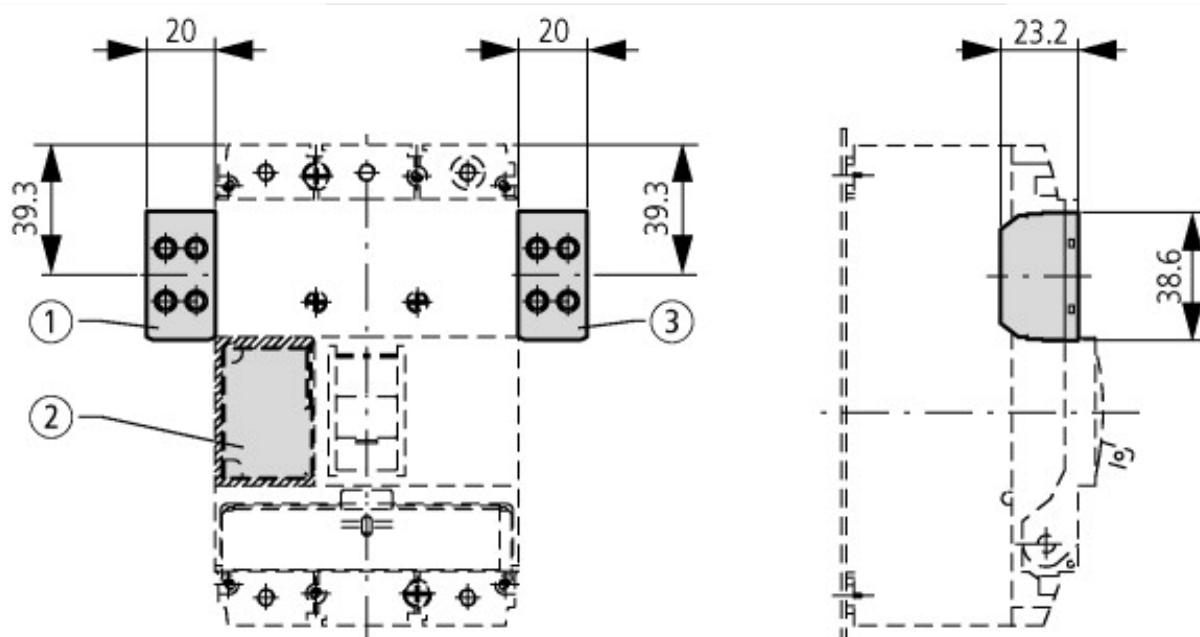
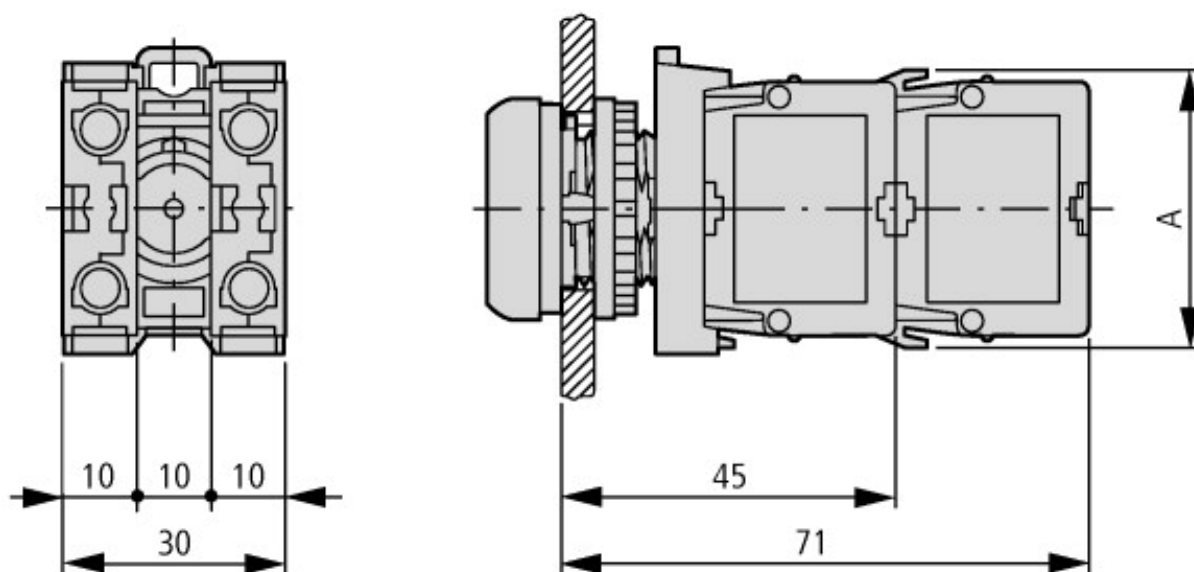
Suitable for miniature circuit-breakers		No
Suitable for pulse relay		No
Suitable for contactor relay relay		No
Suitable for pendant pushbutton		No
Suitable for residual current device		No
Number of contacts as change-over contact		0
Number of contacts as N/O		1
Number of contacts as NC		1
Suitable for 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>

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

Engineering

