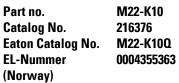
DATASHEET - M22-K10



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





Delivery program

Bonnony program		
Product range		Accessories
Basic function accessories		Contact elements
Accessories		Auxiliary contact
Accessories		Standard auxiliary contact, trip-indicating auxiliary switch
Standard/Approval		UL/CSA, IEC
Construction size		NZM1/2/3/4
Connection technique		Screw terminals
Fixing		Front fixing
Degree of Protection		IP20
Connection to SmartWire-DT		no
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)
Approval Contacts		ET 16107 Sicherheit geprüft tested safety
N/O = Normally open		1 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		. 3
Contact travel diagram, stroke in connection with front element		

Contact diagram	0 2.8 5.5
Configuration	
connection type	Single contact
lescription 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 ca be clipped into the circuit-breaker. Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts ca 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.
lescription 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.
connection technique	Screw terminals
lotes	
or Std. pack:	

M22-(C)K...: Std. pack = 20 off

Notes

The following can be clipped into the switches:

- NZM1: a standard auxiliary contact
- NZM2: up to two M22-(C)K... standard auxiliary contacts
 NZM3: up to three M22-(C)K... standard auxiliary contacts • NZM4: up to three M22-(C)K... standard auxiliary contacts

Any combinations of the auxiliary contact types are possible.

Marking on switch: HIN

In combination with remote operator NZM-XR... only single contacts can be fitted to some installation locations of the standard auxiliary contact.

NZM2: Only single contact can be fitted in left installation location of standard auxiliary contact.

NZM3: Only single contact can be fitted in installation locations of standard auxiliary contact.

NZM4: Only single contact can be fitted in right installation location of standard auxiliary contact.

Technical data

General			
Standards			IEC 60947-5-1
Lifespan, mechanical	Operations	x 10 ⁶	> 5
Operating frequency	Operations/h		≦ 3600
Actuating force		n	≦5
Operating torque (screw terminals)		Nm	≦ 0.8
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
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half- sinusoidal		g	> 30
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

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) ity
at 5 V DC/1 mA	H _F	Fault probabilit	< 5 x 10 ⁻⁶ (i.e. 1 failure in 5 x 10 ⁶ operations) ity
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	A	10
Switching capacity		٨	
Rated operational current	le	A	
AC-15			
115 V	l _e	A	6
220 V 230 V 240 V	l _e	A	6
380 V 400 V 415 V	l _e	A	4
500 V	l _e	А	2
DC-13			
24 V	le	А	3
42 V	l _e	А	1.7
60 V	l _e	А	1.2
110 V	l _e	А	0.6
220 V	l _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		0.7
	operations	x 10 ⁶	
DV-13	0	0	10
12 V/2.8 A	Operations	x 10 ⁶	1.2
Auxiliary contacts Rated operational voltage	U _e	V	
			500
Rated operational voltage Rated operational voltage, max.	Ue Ue	V AC V DC	220
Conventional thermal current		CSA	4
	$I_{th} = I_e$		•
Rated operational current Different rated operational currents when used as auxiliary contact for NZM circuit-breaker	le	A	M22- M22- XHIV (C)K10(01)CK11(02)
			(20) bei AC =
			50/60 Hz
			Bemessungsbetriebsstrom
			AC-1515 le A 4 4 4 V
			230 le A 4 4 4 V
			400 le A 2 - 2 V
			500 le A 1 - 1
			V DC-124V 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
			V 220 le A 0.3 0.2 0.2 V
Short-circuit protection			
max. fuse		A gG/gL	10
Max. miniature circuit-breaker		А	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
			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)
UL/CSA			
Rated operational current	l _e	А	5 A – 600 V AC 1 A - 250 V DC
Other technical data (sheet catalogue)			Maximum equipment and position of the internal accessories

Design verification as per IEC/EN 61439

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Technical data ETIM 7.0

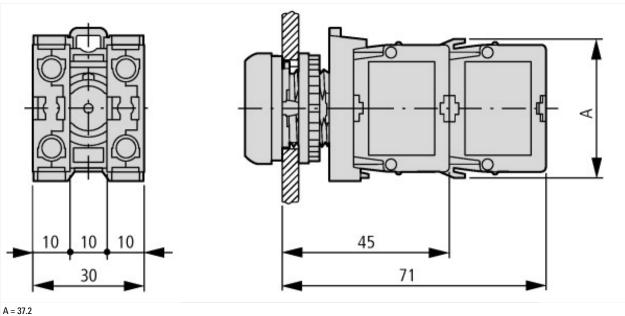
Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

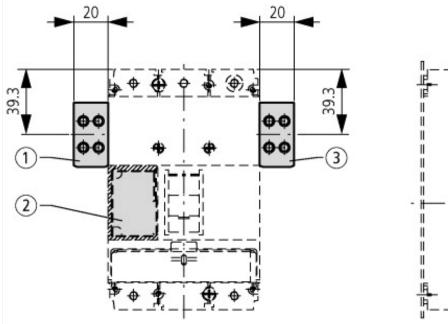
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact Number of contacts as normally open contact 1 Number of contacts as normally closed contact 0 Number of fault-signal switches 0 Rated operation current le at AC-15, 230 V А 6 Type of electric connection Screw connection Model Top mounting and integrable Mounting method Front fastening Lamp holder None

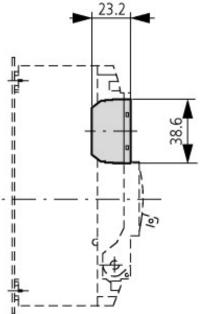
Approvals

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
E29184
NKCR
012528
3211-03
UL listed, CSA certified
UL/CSA Type: -

Dimensions







Additional product information (links)

IL04716002Z (AWA1160-1745) RMQ-Titan Syste	m
IL04716002Z (AWA1160-1745) RMQ-Titan System	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2018_10.pdf
DGUV Test Mark Customer Information	http://www.dguv.de/medien/dguv-test-medien/_pdf_zip_doc_ppt/agb-und-pzo/dguv_test_zeichen_infoblatt_kunden.pdf
Maximum equipment and position of the internal accessories	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178