

Auxiliary contact, 2early N/O, operates as an early-make contact, connection right

Part no. NZM1-XHIVR
Article no. 292195

Powering Business Worldwide

Approvals

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL Category Control No.	DIHS
CSA File No.	022086
CSA Class No.	1437-01
North America Certification	UL listed, CSA certified

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	I_e	A						
Different rated operational currents when used as auxiliary contact for NZM circuit-breaker				bei AC = 50/60 Hz		M22-K...	M22-CK...	XHIV
			Bemessungsbetriebsstrom					
			AC-15	115 V	Ie	A	4	4	4
				230 V	Ie	A	4	4	4
				400 V	Ie	A	2	-	2
				500 V	Ie	A	1	-	1
			DC-13	24 V	Ie	A	3	3	3
				42 V	Ie	A	1.7	1	1.5
				60 V	Ie	A	1.2	0.8	0.8
				110 V	Ie	A	0.8	0.5	0.5
				220 V	Ie	A	0.3	0.2	0.2
Short-circuit protection								
max. fuse		A gG/gL	10					
Max. miniature circuit-breaker		A	FAZ-B6					
Operating times								
			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)					
		AWG	1 x (18 - 14) 2 x (18 - 14)					
UL/CSA								
Rated operational current	I_e	A	2.5 A - 240 V AC 1 A - 250 V DC					
Heavy Pilot Duty			C300/R300					
Other technical data (sheet catalogue)			Maximum equipment and position of the internal accessories Time differences ON-OFF					

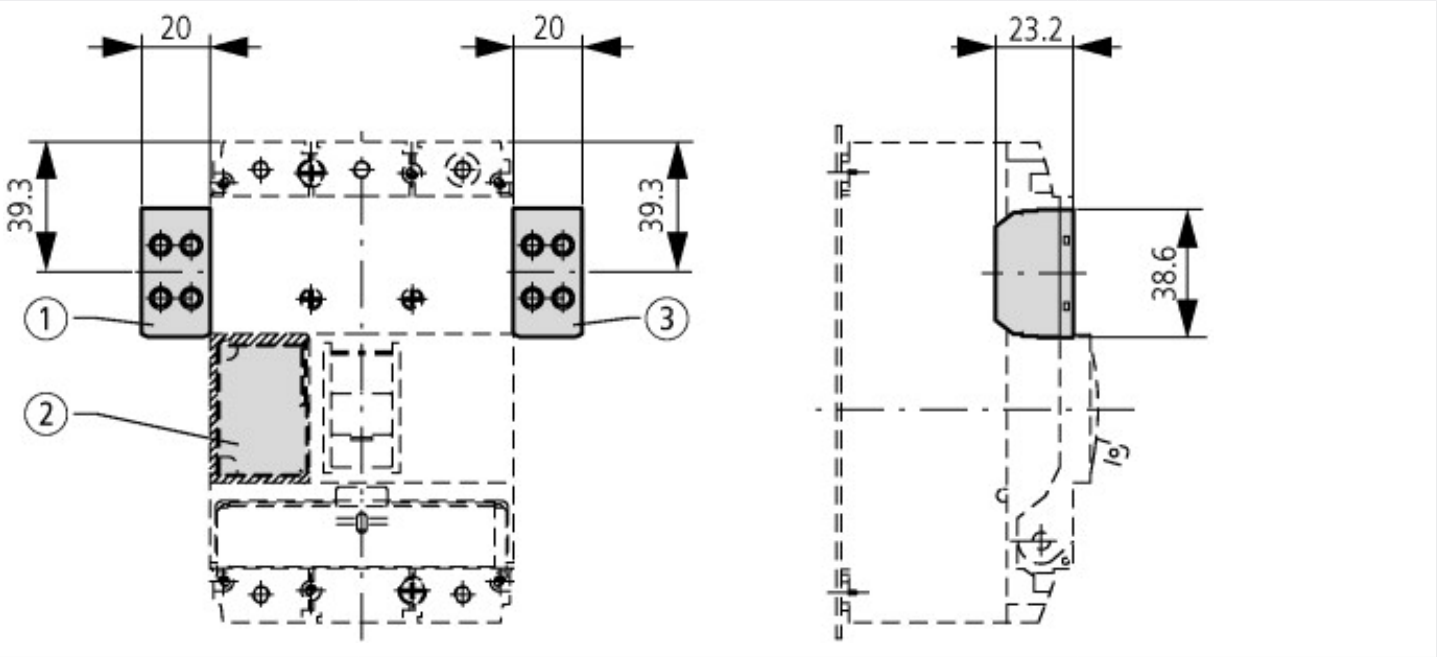
Data for design verification according to IEC/EN 61439

Technical data for design verification			
Rated operational current AC-15 at 220 V, 230 V, 240 V	I_e	A	4
Rated operational current at 24 V	I_e	A	3
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			2
Number of contacts as normally closed contact			0
Rated operation current Ie at AC-15, 230 V		A	4
Type of electric connection			Screw connection
Mounting method			Half-integrated

Dimensions



Additional product information (links)

IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact	
IL01203002Z (AWA1230-1914) Shunt release, Undervoltage release, Early-make auxiliary contact	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01203002Z2010_11.pdf
Maximum equipment and position of the internal accessories	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178
Time differences ON-OFF	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.178

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