

Delivery programme

Rated operating frequency

Standard/Approval Construction size

Product range

Accessories

Description

Part no. Article no. NZM2-XR208-240AC 259832



Accessories

Remote operator, ca	n be synchronized
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AC 50/60 Hz

UL/CSA, IEC

NZM2

For remote switching of circuit-breakers and switch-disconnectors.

ON and OFF switching and resetting by means of two-wire or three-wire control.

Local switching by hand possible.

Lockable in the 0 position of the remote operator with up to 3 padlocks (hasp thickness: 4 - 8 mm)

Can be synchronized

Three-wire control

Two-wire control

(L1+)

N (L1–, L2)



75

Please note during engineering: Terminal 70/71: NZM-XR: Contact loading according to technical data NZM2-XRD: Full current flows through the contact during make and break! RMQ series contact elements can be used for the NZM2(3.4)-XR(D)...remote operators.

Terminal 75:

NZM-XR: Operational readiness signal when cover closed and not locked.

NZM2-XRD: Operational readiness signal when sliding switch set to Auto. Sliding switch with three positions: Manual/Auto/Locked for reliable

differentiation of connected positions. AC-15: 400 V; 2 A DC-13: 220 V; 0.2 A

Three-wire control with automatic reset to the 0 position after the switch has tripped



Switching cycle:

NZM2-NZM3-

XR	OFF ON	⇒	$I \rightarrow O$ ON OFF	t > 3 s	OFF ON
XR	$\underset{\text{OFF ON}}{\overset{80\text{ms}}{\rightarrow}} I$	⇒	$I \rightarrow O$ ON OFF	t > 3 s	OFF ON
	105			4- 20	400

NZM4-XR $\left[\begin{array}{c} \mathbf{0} \stackrel{\text{OUD INS}}{\rightarrow} \mathbf{I} \\ OFF & ON \end{array} \right] \rightarrow \left[\begin{array}{c} \mathbf{I} \rightarrow \mathbf{0} \\ ON & OFF \end{array} \right] \begin{array}{c} t > 3 \text{ s} \\ \hline \mathbf{0} \stackrel{\text{OUD INS}}{\rightarrow} \mathbf{I} \\ OFF & ON \end{array} \right]$ The time interval between OFF and ON is 3 seconds. On commands

received during the time interval are ignored within the first 3 seconds after switch off.

Parallel remote operator connection

	~
10 III III III III III III III III III I	
0 0 0 0	
N. Contraction (Second Second	

Closing delay		ms	60
Break time		ms	300
Rated control voltage	Us	V	208 - 240 V 50/60 Hz
Number of poles			3/4 pole
For use with			NZM2(-4) N(S)2(-4)
Project planning information			Cannot be combined with switch-disconnector PN

Do not install M22-CK11(20/02) dual auxiliary contacts in the center auxiliary contact slot in NZM2-XRD

Engineering information (sheet catalog)

2/3-wire control and circuit diagrams

Technical data

ACPagePAC82-20Operating rangeXUXU35-11ACXUXU35-11DCXUXU35-11Current heat loss per pole at luYUXU35-11I 10V130 VACYUYUYUI 10V130 VACYUYUYU<	Remote operator			
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Minimum signal durationMage with switch onMage with switch offMage with switch offMage mageMage <td>DC</td> <td></td> <td>x U_s</td> <td></td>	DC		x U _s	
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Lifespan, mechanicalOperationsImage: Composition of the state	with switch on		ms	30
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Max. operating frequencyOps/h10Terminal capacitiesmm²mm²Solid or flexible conductor, with ferrulemm²nm²	Lifespan, mechanical	Operations		20000
Terminal capacities mm ² Solid or flexible conductor, with ferrule mm ²	Maximum operating frequency		Ops./h	
Solid or flexible conductor, with ferrule mm ² 0,75 - 2,5	Max. operating frequency		Ops/h	120
	Terminal capacities		mm ²	
AN/C 10 14	Solid or flexible conductor, with ferrule		mm ²	0,75 - 2,5
AVVG 1814			AWG	18 14

Design verification as per IEC/EN 61439

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) / Motor operator for power circuit-breaker (EC001030)

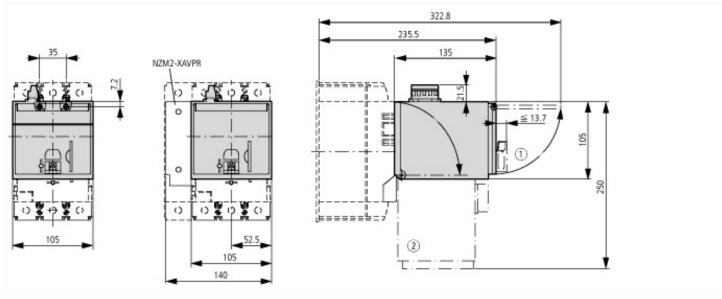
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Electrical drive for circuit breakers (ecl@ss8.1-27-37-04-12 [AKF010010])

Type of switch drive		Motor drive
Rated control supply voltage Us at AC 50HZ	V	208 - 240
Rated control supply voltage Us at AC 60HZ	V	208 - 240
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC

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

Dimensions



Additional product information (links)

IL01206002Z (AWA1230-1984) NZM2 remote operator		
IL01206002Z (AWA1230-1984) NZM2 remote operator	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206002Z2015_02.pdf	
2/3-wire control and circuit diagrams	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.153	