DATASHEET - NZM2-XR24-30DC



Remote operator, 24-30VDC, for size 2

Part no. Catalog No.

NZM2-XR24-30DC 259836



Similar to illustration

Delivery program		
Product range	Accessories	
Accessories	Remote operator, can be synchronized	
Rated operating frequency	DC	
Standard/Approval	UL/CSA, IEC	
Construction size	NZM2	
Description	For remote switching of circuit-breakers and switch-disconnectors.	

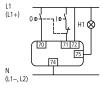
ON and OFF switching and resetting by means of two-wire or three-wire control.

Local switching by hand possible.

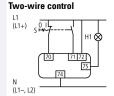
Lockable in the O position of the remote operator with up to 3 padlocks (hasp thickness: 4 - 8 mm)

Can be synchronized

Three-wire control



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:
$NZM2-XR \underbrace{\begin{bmatrix} 0 \stackrel{\text{60 ms}}{\rightarrow} \mathbf{I} \\ \text{OFF} & \text{ON} \end{bmatrix}}_{\text{OFF}} \rightarrow \underbrace{\begin{bmatrix} \mathbf{I} \rightarrow 0 \\ \text{ON} & \text{OFF} \end{bmatrix}}_{\text{OFF}} \underbrace{\begin{bmatrix} 0 \stackrel{\text{60 ms}}{\rightarrow} \mathbf{I} \\ \text{OFF} & \text{ON} \end{bmatrix}}_{\text{OFF}}$
$NZM3-XR \underbrace{\begin{bmatrix} 0^{80} \text{ms} \\ 0 \text{ff} \\ 0 \text{ff} \end{bmatrix}}_{OFF ON} \rightarrow \underbrace{\begin{bmatrix} 1 \rightarrow 0 \\ 0 \\ 0 \text{off} \end{bmatrix}}_{OFF} \underbrace{\begin{bmatrix} t > 3 \text{ s} \\ 0 \\ 0 \\ 0 \text{ff} \end{bmatrix}}_{OFF ON}$
NZM4-XR $[\overset{100 \text{ ms}}{\overset{\circ}{\rightarrow} \mathbf{I}}] \rightarrow [\underset{\text{ON}}{\mathbf{I} \rightarrow \mathbf{O}}] \overset{t>3s}{\overset{\circ}{=}} [\overset{100 \text{ ms}}{\overset{\circ}{\rightarrow} \mathbf{I}}]_{\text{OFF}}$

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

X.,	
	0 ¹⁰¹ 0
0 0 0	
* C # 10 C # 10	

Closing delay		ms	60
Break time		ms	300
Rated control voltage	Us	V	24 - 30 V DC
Number of poles			3/4 pole

	with

Project planning information

Engineering information (sheet catalog)

NZM2(-4) N(S)2(-4)

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

2/3-wire control and circuit diagrams

Technical data

Remote operator			
Rated control voltage	Us	V	
DC	Us	V DC	24 - 30
Operating range			
AC		x U _s	0.85 - 1.1
DC		x U _s	0.85 - 1.1
Motor rating			
DC			
24 V 30 V DC	Р	W	250
Minimum signal duration			
with switch on		ms	30
with switch off		ms	150
Lifespan, mechanical	Operations		20000
Maximum operating frequency		Ops./h	
Max. operating frequency		Ops/h	120
Terminal capacities		mm ²	
Solid or flexible conductor, with ferrule		mm ²	0,75 - 2,5
		AWG	18 14

Design verification as per IEC/EN 61439

IEC, EN 61439 design verification Image: Comparison of the state of the stat		
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Motor operator for power circuit-breaker (EC001030)

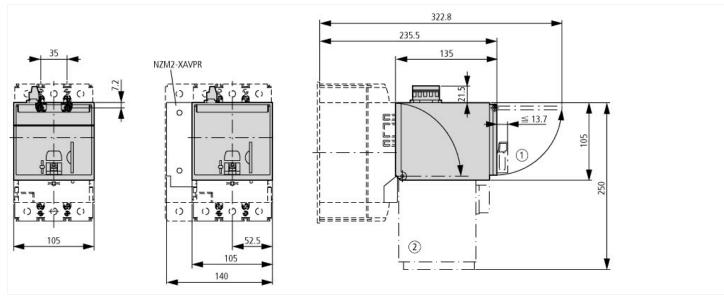
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Electrical drive for circuit breakers (ecl@ss10.0.1-27-37-04-12 [AKF010013])

Type of switch drive			Motor drive
Rated control supply voltage Us at AC 50HZ	V	/	0 - 0
Rated control supply voltage Us at AC 60HZ	V	/	0 - 0
Rated control supply voltage Us at DC	V	/	24 - 30
Voltage type for actuating			DC

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

 https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL01206002Z2019_05.pdf

 2/3-wire control and circuit diagrams
 http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.153