DATASHEET - NZM2-XR48-60DC

Remote operator, 48-60VDC, for size 2

Part no. **NZM2-XR48-60DC**
259838

General specifications

Product name	Eaton Moeller series NZM remote operator
Part no.	NZM2-XR48-60DC
EAN	4015082598389
Product Length/Depth	150 millimetre
Product height	105 millimetre
Product width	105 millimetre
Product weight	1.728 kilogram
Compliances	IEC RoHS conform UL/CSA
Certifications	UL489 CSA (File No. 22086) CE marking CSA (Class No. 1437-01) UL (File No. E140305) CSA certified CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) IEC60947 UL listed
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Remote operator

Delivery program

Type	Accessory Remote operator, can be synchronized
Number of poles	Three-pole/Four-pole
Special features	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
Frame	NZM2
Used with	N(S)2(-4) NZM2(-4)

Technical Data - Electrical

Voltage type	AC
Voltage rating	48 - 60 V DC
Operating voltage - min	0.85 x Us
Operating voltage - max	1.1 x Us
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at DC - min	48 V
Rated control supply voltage (Us) at DC - max	60 V
Voltage tolerance - min	0.85
Voltage tolerance - max	1.1
Power consumption	250 W (24 - 30 V DC)
Closing delay	60 ms
Breaking time	300 ms
Number of operations per hour - max	120
Signal duration of remote operator at switch off - min	150 ms
Signal duration of remote operator at switch on - min	30 ms

Technical Data - Mechanical

Switch drive type	Motor drive

Special features			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
Lifespan, mechanical			20000 operations
Technical Data - Mechanical - Terminals			
Terminal capacity (solid/flexible conductor)			18 - 14 AWG 0.75 mm^2 - 2.5 mm^2 with ferrule
Design verification as per IEC/EN 61439			
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

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@ss13-27-37-04-12 [AKF010018])

Type of switch drive			Motor drive
Rated control supply voltage AC 50 Hz		V	0 - 0
Rated control supply voltage AC 60 Hz		V	0 - 0
Rated control supply voltage DC		V	48 - 60
Voltage type for actuating			AC