



259854  
NZM3-XR24-30DC

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as  
per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

## DELIVERY PROGRAM

Product range  
Accessories

Accessories  
Remote operator, can be synchronized

Rated operating frequency  
DC

Standard/Approval  
UL/CSA, IEC

Construction size  
NZMB

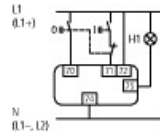
Description  
For remote switching of circuit-breakers and  
switch-disconnectors.  
  
ON and OFF switching and resetting by means of  
two-wire or three-wire control.  
  
Local switching by hand possible.

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

## Can be synchronized

Please note during engineering:

### Three-wire control

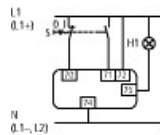


**NZM-XR** Contact loading according to technical data

**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.

### Two-wire control



### Terminal 70/71:

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

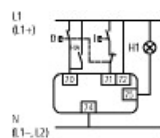
**NZM2-XRD**: Operational readiness signal when sliding switch set to Auto.

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

NZM3-XR

NZM4-XR

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



Closing delay  
80 ms

Break time  
1000 ms

Rated control voltage [ $U_s$ ]  
24 - 30 V DC V

Number of poles  
3/4 pole

For use with  
NZMB(-4)  
N(S)3(-4)

Project planning information  
Cannot be combined with switch-disconnector  
PN..  
M22-CK11(20/02) dual auxiliary switch cannot be  
combined with NZMB-XR... remote operator

Engineering information (sheet catalog)  
2/3-wire control and circuit diagrams

## TECHNICAL DATA

### Remote operator

Rated control voltage [ $U_s$ ]  
DC [ $U_s$ ]  
24-30 V DC

Operating range  
AC  
0.85 - 1.1 x  $U_s$

Operating range  
DC

0.85 - 1.1 x  $U_s$

Motor rating  
DC  
24 V ... 30 V DC [P]  
250 W

Minimum signal duration  
with switch on  
30 ms

Minimum signal duration  
with switch off  
250 ms

Lifespan, mechanical [Operations]  
15000

Maximum operating frequency  
Max. operating frequency  
60 Ops/h

Terminal capacities  
Solid or flexible conductor, with ferrule  
0,75 - 2,5 mm<sup>2</sup>

Terminal capacities  
18 ... 14 AWG

## 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 Strength of materials and parts  
10.2.3.1 Verification of thermal stability of  
enclosures  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.2 Verification of resistance of insulating

materials to normal heat  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
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 Strength of materials and parts  
10.2.4 Resistance to ultra-violet (UV) radiation  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
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 Insulation properties  
10.9.3 Impulse withstand voltage  
Is the panel builder's responsibility.

10.9 Insulation properties  
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 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 (ec@ss10.0.1-27-37-04-12 [AKF010013])

Type of switch drive  
Motor drive

Rated control supply voltage  $U_s$  at AC 50-HZ

0 - 0 V

Rated control supply voltage  $U_s$  at AC 60Hz  
0 - 0 V

Rated control supply voltage  $U_s$  at DC  
24 - 30 V

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



