



115393

NZM2-XRD24-30DC

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DELIVERY PROGRAM

[Delivery program](#)

Product range

Accessories

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Accessories

Remote operator, standard

[Design verification as per IEC/EN 61439](#)

Rated operating frequency

DC

[Technical data ETIM 7.0](#)

Standard/Approval

UL/CSA, IEC

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Construction size

NZM2

[Dimensions](#)

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.

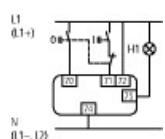
Lockable in the 0 position of the remote operator

with up to 3 padlocks (hasp thickness: 4 – 8 mm)

Please note during
engineering:

**Three-wire
control**

Terminal 70/71:



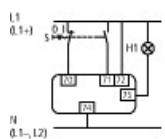
NZM-XR: Contact loading
according to technical data

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.

**Two-wire
control**

Terminal 75:



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

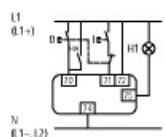
NZM2-XRD: Operational
readiness signal when sliding
switch set to Auto.

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:



**Parallel
remote
operator
connection**



Closing delay
110 – 170 ms

Break time
110 – 170 ms

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

Number of poles
3/4 pole

For use with
NZM2(-4)
N(S)2(-4)

Project planning information
Sliding switch for "Auto" or "Manual"
Max. number auxiliary contacts: 2 standard
auxiliary contacts, 1 trip-indicating auxiliary
switches
Cannot be combined with switch-disconnector
PN...
Cannot be combined with mechanical interlock
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

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]
450 W

Minimum signal duration
with switch on
100 ms

Minimum signal duration
with switch off
100 ms

Lifespan, mechanical [Operations]
20000

Maximum operating frequency
Max. operating frequency
120 Ops/h

Terminal capacities
Solid or flexible conductor, with ferrule
0,75 - 2,5 mm²

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 (EO001030)

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
0 - 0 V

Rated control supply voltage Us at AC 60HZ
0 - 0 V

Rated control supply voltage Us 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

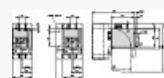
UL Category Control No.
DIHS

CSA File No.
022086

CSA Class No.
1437-01

North America Certification
UL listed, CSA certified

DIMENSIONS





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