Powering Business Worldwide

NZM1-XA24AC/DC - Shunt release, 24VAC/DC

259708 NZM1-XA24AC/DC

Overview Specifications Resources

259708 NZM1-XA24AC/DC

Shunt release, 24VAC/DC

EL-Nummer (Norway) 4358723

Optional accessories for circuit-breaker series NZM offers a comprehensive portfolio of application possibilities for worldwide use. Modular functional groups make mounting flexible and simple.

Delivery program

Product range
Accessories
Accessories
Shunt release
Accessories
Shunt releases
Standard/Approval
UL/CSA, IEC
Construction size
NZM1
Description
Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.
If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on.
Shunt releases cannot be installed simultaneously with NZM..-XHIV... early-make auxiliary contact or NZM..-XU... undervoltage release.
Connection type
with terminal block on the left-hand switch side
Auxiliary contacts
without auxiliary contact
Rated control voltage [U_s]
24 V AC/DC V
For use with
NZM1(-4), N(S)1(-4)

Technical data

Shunt release

Rated control voltage [U_s]AC [U_s]
24-24 V AC
Rated control voltage [U_s]DC [U_s]
24-24 V DC
Frequency
50/60/200/400, DC Hz
Operating rangeAC [x U_s]
0.7 - 1.1
Operating rangeDC [x U_s]
0.7 - 1.1
Power consumptionPick-up AC/DC
2.5 VA/W
Power consumptionPower consumption Pick-up = Sealing
2.5 VA/W
Maximum opening delay (response time until opening of the main contacts)
20 ms
Maximum duty factor
∞ ms
Minimum command time
10 … 15 ms
Terminal capacitiesSolid or flexible conductor, with ferrule
1 x (0,75 - 2,5)
2 x (0,75 - 2,5) mm^2
Terminal capacities
1 x (18 … 14)
2 x (18 … 14) AWG

Design verification as per IEC/EN 61439

IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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) / Shunt release (for power circuit breaker) (EC001023)
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])
Rated control supply voltage Us at AC 50HZ
24 - 24 V
Rated control supply voltage Us at AC 60HZ
24 - 24 V
Rated control supply voltage Us at DC
12 - 24 V
Voltage type for actuating
AC/DC
Initial value of the undelayed short-circuit release - setting range
0 A
End value adjustment range undelayed short-circuit release
0 A
Type of electric connection
Screw connection
Number of contacts as normally open contact
0
Number of contacts as normally closed contact
0
Number of contacts as change-over contact
0
Suitable for power circuit breaker
Yes
Suitable for off-load switch
Yes
Suitable for motor safety switch
No
Suitable for overload relay
No

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

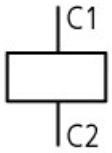
Dimensions

NZM1-XA(HIV)
NZM1-XU(HIV)(20)
NZM1-XHIV

NZM1-XA(HIV)(L)
NZM1-XU(V)(HIV)(L)(20)
NZM1-XHIV(L)

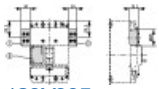
NZM1-XHIVR

Wiring diagram

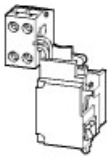
- 

123S017
Line drawing
Shunt release

Dimensions single product

- 
123X305
Line drawing
Releases
- NZM1-XA(HIV), NZM1-XA(HIV)(20), NZM1-XHIV
- NZM1-XA(HIV)(L), NZM1-XU(V)(HIV)(L)(20), NZM1-XHIV(L)
- NZM1-XHIVR

3D drawing

- 
123I522
Line drawing
Undervoltage releases, shunt releases

Product photo

- 
1230PIC-756
Photo

Instruction Leaflet

- IL01203002Z
Asset
(PDF, Language independent)

CAD data

edz files

- DA-CE-ETN.NZM1-XA24AC_DC
File
(Web)

Download-Center

- Download-Center (this item)
Eaton EMEA Download-Center - download data for this item
- Download-Center
Eaton EMEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

Write a comment