259471
NZM1-XUL208-240AC

Overview | Specifications | Resources

DELIVERY PROGRAM

Product range
Accessories

Accessories
Undervoltage release

Accessories
Undervoltage releases

Standard/Approval
UL/CSA, IEC

Construction size
NZM1

Description
Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% U_S.
For use with emergency-stop devices in connection with an emergency-stop button.
When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on.

Undervoltage releases cannot be installed simultaneously with NZM..-XHIV... early-make auxiliary contact or NZM..-XA... shunt release.

Connection type
with 3 m connection cable instead of screw termination

Auxiliary contacts
without auxiliary contact

Rated control voltage [U_s]
208 - 240 V 50/60 Hz V

For use with
NZM1(-4), N(S)1(-4)

TECHNICAL DATA

Undervoltage release

Rated control voltage [U_s]
AC [U_s]
208-240 V AC

Rated control voltage [U_s]
Rated control voltage [U_s]
208 - 240 V 50/60 Hz V

Operating range
Drop-out voltage
0.35 - 0.7 x U_s

Operating range
Pick-up voltage [x Uc]
0.85 - 1.1

Power consumption
AC
Pick-up AC
1.5 VA

Power consumption
AC

Sealing AC
1.5 VA

Power consumption
DC
Pick-up DC
0.8 W

Power consumption
DC
Sealing DC
0.8 W

Maximum opening delay (response time until opening of the main contacts)
19 ms

Minimum command time
10 - 15 ms

Terminal capacities

Solid or flexible conductor, with ferrule
1 x (0,75 - 2,5)
2 x (0,75 - 2,5) mm^2

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 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) / Under voltage coil (EC001022)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss10.0.1-27-37-04-17 [AKF015013])

Rated control supply voltage Us at AC 50HZ
208 - 240 V

Rated control supply voltage Us at AC 60HZ

208 - 240 V

Rated control supply voltage Us at DC
0 - 0 V

Voltage type for actuating
AC

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

Delayed
No

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