260154
UVU-NZM

DELIVERY PROGRAM

Product range
Accessories

Accessories
Undervoltage release

Accessories
Undervoltage releases, off-delayed

Standard/Approval
IEC

Construction size
NZM1/2/3/4

Description
Delay unit for combination with special undervoltage releases.
For use with emergency-stop devices in connection with an emergency-stop button.
not UL/CSA approved
Voltage dips of less than the setting between 0.06 – 16 s do not cause disconnection of the NZM circuit-breaker or N switch-disconnector.

Delay time can be set from: 70 ms – 4 s.
With additional external capacitor: 30,000 µF □ 35 V to 8 s, 90,000 µF □ 35 V to 16 s.
A special release is required.
Cannot be installed simultaneously with separate NZM..-XHIV early-make auxiliary contact or NZM..-XA... shunt release.
Delay unit for separate installation. Fixing: top-hat rail or screws.
For other operating voltages use a control transformer.

Connection type
With bolt connection

For use with
NZM1(-4), 2(-4), 3(-4), 4(-4)
N(S)1(-4), 2(-4), 3(-4), 4(-4)

50/60 Hz
220 V - 240 V
380 V - 440 V
480 V - 550 V

DC/AC
24 V

TECHNICAL DATA

Undervoltage releases, off-delayed

Rated operational voltage [U_e]
Alternating voltage at 50/60 Hz [U_e]
24, 220 - 550 V AC

Rated operational voltage [U_e]
DC [U_e]
24 V DC

Inrush current (peak value) [I_e]
< 500 mA

Power consumption
50 VA

Delay time [t_{sd}]
70 - 4000 ms

With additional external capacitor, 90.000 µF □ 35 V
16 s

With additional external capacitor, 30.000 µF □ 35 V
8 s

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

Terminal capacities
1 x (20 - 14)
2 x (20 - 16) 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
24 - 550 V

Rated control supply voltage Us at AC 60HZ
24 - 550 V

Rated control supply voltage Us at DC
24 - 24 V

Voltage type for actuating
AC/DC

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
Yes

Suitable for power circuit breaker
Yes

Suitable for off-load switch
Yes

Suitable for motor safety switch
No

Suitable for overload relay
No

DIMENSIONS

Capacitor unit
NZM-XCM