

Delay unit

 Part no. UVU-NZM
 Catalog No. 260154

 EL-Nummer 4358722
 (Norway)

Delivery program

Product range		Accessories
Accessories		Undervoltage release
Accessories		Undervoltage releases, off-delayed
Standard/Approval		IEC
Construction size		NZM1/2/3/4
Description		<p>Delay unit for combination with special undervoltage releases.</p> <p>For use with emergency-stop devices in connection with an emergency-stop button.</p> <p>not UL/CSA approved</p> <p>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.</p> <p>Delay time can be set from: 70 ms – 4 s.</p> <p>With additional external capacitor: 30,000 µF ≥ 35 V to 8 s, 90,000 µF ≥ 35 V to 16 s.</p> <p>A special release is required.</p> <p>Cannot be installed simultaneously with separate NZM...-XHIV early-make auxiliary contact or NZM...-XA... shunt release.</p> <p>Delay unit for separate installation. Fixing: top-hat rail or screws.</p> <p>For other operating voltages use a control transformer.</p>
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	V	
Alternating voltage at 50/60 Hz	U_e	V AC	24, 220 - 550
DC	U_e	V DC	24
Inrush current (peak value)	I_e	mA	< 500
Power consumption		VA	50
Delay time	t_{sd}	ms	70 - 4000
With additional external capacitor, 90.000 µF ≥ 35 V		s	16
With additional external capacitor, 30.000 µF ≥ 35 V		s	8
Terminal capacities		mm ²	
Solid or flexible conductor, with ferrule		mm ²	1 x (0,5 - 2,5) 2 x (0,5 - 1,5)
		AWG	1 x (20 - 14) 2 x (20 - 16)

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.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
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.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.

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.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
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 8.0

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		V	24 - 550
Rated control supply voltage Us at AC 60HZ		V	24 - 550
Rated control supply voltage Us at DC		V	24 - 24
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			No
Suitable for off-load switch			Yes
Suitable for motor safety switch			No
Suitable for overload relay			No