

Delay unit

Part no.	UVU-NZM
Catalog No.	260154
EL-Nummer (Norway)	4358722

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 μ F \geq 35 V to 8 s, 90,000 μ F \geq 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	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 μ F \geq 35 V		s	16
With additional external capacitor, 30,000 μ F \geq 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