



Delay unit

**Part no.
Article no.**

**UVU-NZM
260154**

Delivery programme

Product range		Accessories
Accessories		Undervoltage release
Accessories		Undervoltage releases, off-delayed
Standard/Approval		IEC
Construction size		NZM1/2/3/4
Description		<p>Combination of separate delay unit and special releases. For use with emergency switching off devices in conjunction with Emergency switching off 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.</p> <p>With additional external capacitor: 30,000 μF \approx 35 V to 8 s, 90,000 μF \approx 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.</p>
For use with		<p>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</p>

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 \approx 35 V		s	16
With additional external capacitor, 30.000 μF \approx 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)

Data for design verification according to IEC/EN 61439

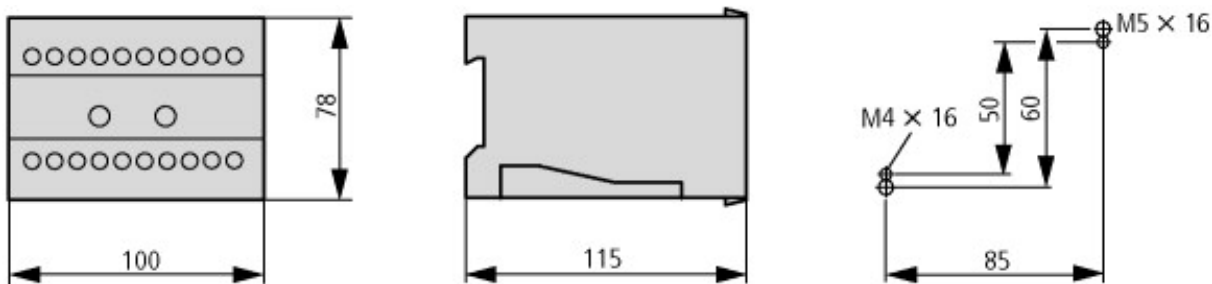
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials 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 5.0

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@ss8-27-37-04-17 [AKF015009])		
Rated control supply voltage U_s at AC 50HZ	V	24 - 550
Rated control supply voltage U_s at AC 60HZ	V	24 - 550
Rated control supply voltage U_s 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		Yes
Suitable for switch disconnecter		Yes
Suitable for motor safety switch		No
Suitable for overload relay		No

Dimensions



Capacitor unit
NZM-XCM

Additional product information (links)

IL01219005Z (AWA1230-1814) Undervoltage release, off-delayed

IL01219005Z (AWA1230-1814) Undervoltage release, off-delayed ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01219005Z2010_09.pdf