DATASHEET - UVU-NZM

Delay unit

Part no.	**UVU-NZM**
	260154
EL Number (Norway)	**4358722**

Powering Business Worldwide™

General specifications

Product name	Eaton Moeller series NZM release
Part no.	UVU-NZM
EAN	4015082601546
Product Length/Depth	100 millimetre
Product height	114 millimetre
Product width	74 millimetre
Product weight	0.847 kilogram
Compliances	IEC RoHS conform
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release

Delivery program

Type	Accessory Undervoltage release Undervoltage release, off-delayed
Special features	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.
Frame	NZM1/2/3/4
Suitable for	Off-load switch
Used with	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 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 - Electrical

Voltage type	AC/DC
Voltage rating at DC	24 V DC
Voltage rating at AC	220 - 550 V AC
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	550 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	550 V
Rated control supply voltage (Us) at DC - min	24 V
Rated control supply voltage (Us) at DC - max	24 V
Rated operation current (Ie)	< 0.5 A
Power consumption	50 VA
Delay time	70 - 4000 ms (undervoltage releases, off-delayed)
Delay time with additional external capacitor	8 s (30 mF) 16 s (90 mF)
Electric connection type	Screw connection

Technical Data - Mechanical

Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	0
Number of contacts (normally open contacts)	0

Connection type		With bolt connection
Special features		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.

Technical Data - Mechanical - Terminals

Terminal capacity (solid/flexible conductor)		20 - 14 AWG (1x) at shunt release 20 - 16 AWG (2x) at shunt release 0.5 mm^2 - 1.5 mm^2 (2x) at shunt release with ferrule 0.5 mm^2 - 1.5 mm^2 (2x) for undervoltage releases, off-delayed with ferrule 0.5 mm^2 - 2.5 mm^2 (1x) at shunt release with ferrule 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.5 mm^2 - 2.5 mm^2 (1x) for undervoltage releases, off-delayed with ferrule

Design verification as per IEC/EN 61439

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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.

Additional information

Functions		Delayed

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