DATASHEET - NZM2/3-XU380-440AC

Undervoltage release, 380-440VAC



Part no.	NZM2/3-XU380-440AC
	259501
EL Number	4358768

EL Number (Norway)

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Product Sub Type Release Type Market Sub Type Type Market Sub Type Special features Non-delayed disconscion of XLM circuit-breaker or N witch disconnector witch disconnector witch disconnector witch an emergency-stop divices in connection with a emergency-stop divices in connection	Product Tradename	NZM
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Number of the output outpage sinks below 35 – 70% US. Frame K Suitable for K Used with Memore during releases canno be installed simultaneously with XZMXHW early-make audilary contact is prevented when switched on. Suitable for K Used with Memore during releases canno be installed simultaneously with XZMXHW early-make audilary contact or NZMXA shunt release. Voltage type MXXI:40, NISI(-4), NISI	Туре	
Suitable for Image: Suitable for Used with Suitable for Used with Suitable for Voltage type AC Rated control voltage (relay contacts) 440 V AC Rated control supply voltage 380 - 440 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - min 380 - 440 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - min 380 V AC Rated control supply voltage (Us) at AC, 50 Hz - min 380 V AC Rated control supply voltage (Us) at AC, 50 Hz - min 380 V AC Rated control supply voltage (Us) at AC, 60 Hz - min 380 V AC Rated control supply voltage (Us) at AC, 60 Hz - min 380 V AC Rated control supply voltage (Us) at AC, 60 Hz - max V Voltage tolerance - min SS Voltage tolerance - min SS vuls Voltage tolerance - min SS vuls <td>Special features</td> <td>when the control voltage sinks below 35 – 70% US. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZMXHIV</td>	Special features	when the control voltage sinks below 35 – 70% US. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZMXHIV
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Rated control voltage (relay contacts) 40 V AC Rated control supply voltage 300 - 440 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - min 300 - 440 V 50/60 Hz Rated control supply voltage (Us) at AC, 50 Hz - max 400 V Rated control supply voltage (Us) at AC, 60 Hz - max 300 V Rated control supply voltage (Us) at AC, 60 Hz - max 400 V Rated control supply voltage (Us) at AC, 60 Hz - max 300 V Rated control supply voltage (Us) at AC, 60 Hz - max 400 V Rated control supply voltage (Us) at DC - max V Voltage tolerance - min V Voltage tolerance - max 1.1 Drop-out voltage of undervoltage release AC/DC - max 355 x Us Drop-out voltage of undervoltage release AC/DC - max 7x Us Power consumption 80 K (seating DC) Power consumption 80 K (seating DC) State Sta		
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Rated control supply voltage (Us) at AC, 60 Hz - min380 VRated control supply voltage (Us) at AC, 60 Hz - max440 VRated control supply voltage (Us) at DC - min0 VRated control supply voltage (Us) at DC - max0 VVoltage tolerance - min0.85Voltage tolerance - max1.1Drop-out voltage of undervoltage release AC/DC - max0.55 × UsDrop-out voltage of undervoltage release AC/DC - max0.7 × UsPower consumption0.8 W (sealing DC) i.5 VA (sealing AC)	Rated control supply voltage (Us) at AC, 50 Hz - min	380 V
Rated control supply voltage (Us) at AC, 60 Hz - max440 VRated control supply voltage (Us) at DC - min0 VRated control supply voltage (Us) at DC - max0 VVoltage tolerance - min0.85Voltage tolerance - max1.1Drop-out voltage of undervoltage release AC/DC - minx0.35 x UsDrop-out voltage of undervoltage release AC/DC - max0.88 W (sealing DC) to X (sealing AC)	Rated control supply voltage (Us) at AC, 50 Hz - max	440 V
Rated control supply voltage (Us) at DC - max 0 Rated control supply voltage (Us) at DC - max 0 Voltage tolerance - min 0.85 Voltage tolerance - max 1.1 Drop-out voltage of undervoltage release AC/DC - min 0.35 x Us Drop-out voltage of undervoltage release AC/DC - max 0.35 x Us Power consumption 0.80 (sealing DC) (sealing AC)	Rated control supply voltage (Us) at AC, 60 Hz - min	380 V
Rated control supply voltage (Us) at DC - max 0 V Voltage tolerance - min 0.85 Voltage tolerance - max 1.1 Drop-out voltage of undervoltage release AC/DC - min 0.35 x Us Drop-out voltage of undervoltage release AC/DC - max 0.45 Power consumption 0.88 W (sealing DC) 1.5 VA (sealing AC)	Rated control supply voltage (Us) at AC, 60 Hz - max	440 V
Voltage tolerance - min 0.85 Voltage tolerance - max 1.1 Drop-out voltage of undervoltage release AC/DC - min 0.35 x Us Drop-out voltage of undervoltage release AC/DC - max 0.7 x Us Power consumption 0.8 W (sealing DC) 1.5 VA (sealing AC)	Rated control supply voltage (Us) at DC - min	0 V
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Drop-out voltage of undervoltage release AC/DC - max 0.7 x Us Power consumption 0.8 W (sealing DC) 1.5 VA (sealing AC)	Voltage tolerance - max	1.1
Power consumption 0.8 W (sealing DC) 1.5 VA (sealing AC)	Drop-out voltage of undervoltage release AC/DC - min	0.35 x Us
1.5 VA (sealing AC)	Drop-out voltage of undervoltage release AC/DC - max	0.7 x Us
Pick-up power consumption at AC (undervoltage release)	Power consumption	
	Pick-up power consumption at AC (undervoltage release)	1.5 V-A

Pick-up power consumption at DC (undervoltage release)	0.8 W
Reaction time	19 ms
Minimum command time - min	10 ms
Minimum command time - max	15 ms
Electric connection type	Screw connection
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	Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage sinks below 35 – 70% US. For use with emergency-stop devices in connection with an emergency-stop button. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXA shunt release.
Terminal capacity (solid/flexible conductor)	18 - 14 AWG (1x) at shunt release 18 - 14 AWG (1x) for undervoltage releases, off-delayed 0.75 mm ² - 2.5 mm ² (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release 0.75 mm ² - 2.5 mm ² (2x) at shunt release with ferrule 0.75 mm ² - 2.5 mm ² (1x) at shunt release with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm ² - 2.5 mm ² (1x) for undervoltage releases, off-delayed with ferrule
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.

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	380 - 440	
Rated control supply voltage Us at AC 60HZ		V	380 - 440	
Rated control supply voltage Us at DC		V	0 - 0	
Voltage type for actuating			AC	
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	No
Suitable for power circuit breaker	No
Suitable for off-load switch	Yes
Suitable for motor safety switch	No
Suitable for overload relay	No