## 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 visight Generation of SM area starter of SM ar	Part no.	NZM2/3-XU380-440AC
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Product within Image: Section of the	Product Length/Depth	42 millimetre
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Product Type   Accessories     Product Sub Type   Release     Type   Accessory     Type   Mon-delayed disconnection NVLM circuit-breater or N witch-disconnector     Special features   Non-delayed disconnection NVLM circuit-breater or N witch-disconnector     Non-delayed disconnection NVLM circuit-breater or N witch-disconnector   Non-delayed disconnector NVLM circuit-breater or N witch-disconnector     Farme   Non-delayed disconnector NVLM circuit-breater or N witch-disconnector     Subable for   NUdorobtage release auxiliary contacts is prevented when witched off.     Used with   NUdorobtage release auxiliary contacts is prevented when witched off.     Nutage type   NUMARCHARL     Rated control voltage (relay contacts)   Mon Met Contacts is prevented when witched NULAU-XHIV.     Nutage type   Mon Met Contacts is prevented when witched NULAU-XHIV.     Rated control voltage (relay contacts)   Mon Met Contacts is prevented when witched NULAU-XHIV.     Rated control voltage (relay contacts)   Mon Met Contacts is prevented when witched NULAU-XHIV.     Rated control voltage (relay contacts)   Mon Contacts witched NULAU-XHIV.     Rated control voltage (relay contacts)   Mon Contacts witched NULAU-XHIV.     Rated control voltage (relay contacts)   Mon Contacts witched NULAU-XHIV.  <	Certifications	UL (File No. E140305) CE marking UL listed IEC60947 UL489 CSA (Class No. 1437-01) CSA-C22.2 No. 5-09 CSA (File No. 22086)
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
Type   Acconscience of Acconscience of AZM circuit-breaker or N switch-disconnector when the control voltage releases     Special features   Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage rinks subow 35 - 70% US. For uses with mergency-stop durics in connection with an emergency-stop durics in connection with an emergency-stop durics in connection with an emergency-stop durics in connection with AZMXHIV     Frame   Non-delayed disconnection of NZM circuit-breaker or N switch-disconnector when the control voltage releases cannot be installed smithaneously with XZMXHIV     Sutable for   NZM2/3     Used with   NZM2/41, NIS/21-41     Non-delayed disconnection of NZM circuit-breaker or N switch-disconnection with AZMXHIV     Voltage type   NZM2/3     Rated control supply voltage (legi at AC, 50 Hz - main   NZM2/41, NIS/21-41     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA     Rated control supply voltage (legi at AC, 50 Hz - main   Salv VA	Product Type	Accessories
Special features   Indervoltage release     Special features   Non-delayed featores or N switch-disconnector whethe control voltage sinks below 35 – 70% US. For use with mergency-stop devices in connection with an emergency-stop devices in connection with the circuit breaker's primary contacts is prevented when switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on NEAL_XAL_NINSIA     Suitable for   NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSINVAL_XINSIA     Valued vibra   NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Nustaer    NUMdrv/dag release c	Product Sub Type	Release
Special features   Indervoltage release     Special features   Non-delayed featores or N switch-disconnector whethe control voltage sinks below 35 – 70% US. For use with mergency-stop devices in connection with an emergency-stop devices in connection with the circuit breaker's primary contacts is prevented when switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on NEAL_XAL_NINSIA     Suitable for   NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSINVAL_XINSIA     Valued vibra   NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Number    NUMdrv/dag release cannot be installed simultaneously with NEAL_XHIV_ANSIA     Nustaer    NUMdrv/dag release c		
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
Used with   ZM2(14), N(S)2(-4)     Used with   ZM2(14), N(S)2(-4)     Voltage type   AC     Notage type   AC     Rated control voltage (relay contacts)   380 × 400 × 50/60 Hz     Rated control supply voltage   380 × 400 × 50/60 Hz     Rated control supply voltage (Us) at AC, 50 Hz - min   380 × 400 × 50/60 Hz     Rated control supply voltage (Us) at AC, 50 Hz - min   440 V     Rated control supply voltage (Us) at AC, 60 Hz - min   380 × 400 × 50/60 Hz     Rated control supply voltage (Us) at AC, 60 Hz - min   440 V     Rated control supply voltage (Us) at AC, 60 Hz - min   380 × 0     Rated control supply voltage (Us) at AC, 60 Hz - min   0 ×     Rated control supply voltage (Us) at AC, 60 Hz - max   0 ×     Rated control supply voltage (Us) at DC - min   0 ×     Rated control supply voltage (Us) at DC - max   0 ×     Voltage tolerance - min   0.35 × Us     Voltage tolerance - min   0.35 × Us     Voltage tolerance - max   0.7 × Us     Drop-out voltage release AC/DC - max   0.5 × Us     Power consumption   0.5 × Us     So × Us   0.5 × Us     So × Us   0.5 × Us	Frame	NZM2/3
NZM3(-4), N(s)3(-4)       Voltage type     AC       Rated control voltage (relay contacts)     AQ       Rated control supply voltage     Salo - 440 V SO(60 Hz       Rated control supply voltage (Us) at AC, 50 Hz - min     Salo - 440 V SO(60 Hz       Rated control supply voltage (Us) at AC, 50 Hz - min     Salo - 440 V SO(60 Hz       Rated control supply voltage (Us) at AC, 50 Hz - min     Salo - 440 V       Rated control supply voltage (Us) at AC, 60 Hz - min     Salo - 440 V       Rated control supply voltage (Us) at AC, 60 Hz - min     Salo - 440 V       Rated control supply voltage (Us) at AC, 60 Hz - min     Salo V       Rated control supply voltage (Us) at AC, 60 Hz - min     Salo V       Rated control supply voltage (Us) at AC, 60 Hz - min     Salo V       Rated control supply voltage (Us) at DC - min     OV       Rated control supply voltage (Us) at DC - min     Salo - 440 V       Voltage tolerance - min     Salo - 440 V       Voltage tolerance - min     Salo - 440 V       Voltage tolerance - max     Salo - 440 V       Drop-out voltage of undervoltage release AC/DC - min     Salo - 440 V       Salo - 440 V     Salo - 440 V       Salo - 440 V     Salo - 440 V <tr< td=""><td>Suitable for</td><td>Off-load switch</td></tr<>	Suitable for	Off-load switch
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	Used with	
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		
Rated control supply voltage 380 V AC   Rated control supply voltage (Us) at AC, 50 Hz - min 380 V 40V 50/60 Hz   Rated control supply voltage (Us) at AC, 50 Hz - max 440 V   Rated control supply voltage (Us) at AC, 60 Hz - max 440 V   Rated control supply voltage (Us) at AC, 60 Hz - max 440 V   Rated control supply voltage (Us) at AC, 60 Hz - max 440 V   Rated control supply voltage (Us) at DC - max Voltage control supply voltage (Us) at DC - max   Rated control supply voltage (Us) at DC - max Voltage tolerance - min   Voltage tolerance - min Voltage tolerance - max   Drop-out voltage of undervoltage release AC/DC - max Sas X Us   Drop-out voltage of undervoltage release AC/DC - max Sas X Us   Power consumption Sas X Us	Voltage type	
Rated control supply voltage (Us) at AC, 50 Hz - min   380 V     Rated control supply voltage (Us) at AC, 50 Hz - max   440 V     Rated control supply voltage (Us) at AC, 60 Hz - min   380 V     Rated control supply voltage (Us) at AC, 60 Hz - max   440 V     Rated control supply voltage (Us) at AC, 60 Hz - max   440 V     Rated control supply voltage (Us) at DC on max   0 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 - minx   0.35 x Us     Drop-out voltage of undervoltage release AC/DC - max   0.83 (S and S an	Rated control voltage (relay contacts)	
Rated control supply voltage (Us) at AC, 50 Hz - max   440 V     Rated control supply voltage (Us) at AC, 60 Hz - max   380 V     Rated control supply voltage (Us) at AC, 60 Hz - max   440 V     Rated control supply voltage (Us) at AC, 60 Hz - max   0 V     Rated control supply voltage (Us) at DC - min   0 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 - max   0.35 x Us     Drop-out voltage of undervoltage release AC/DC - max   0.7 x Us     Power consumption   0.8W (sealing DC) and C)	Rated control supply voltage	380 - 440 V 50/60 Hz
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
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 - max	0 V
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)	Voltage tolerance - min	0.85
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 <sup>2</sup> - 2.5 mm <sup>2</sup> (2x) for undervoltage releases, off-delayed with ferrule 18 - 14 AWG (2x) at shunt release 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (2x) at shunt release with ferrule 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x) at shunt release with ferrule 18 - 14 AWG (2x) for undervoltage releases, off-delayed 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (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