DATASHEET - NZMN4-VX1000-AVE

NZM4 PXR20 circuit breaker, 1600A, 3p, withdrawable unit



Part no.

NZMN4-VX1000-AVE 191415

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMN4-VX1000-AVE
EAN	4015081919277
Product Length/Depth	501 millimetre
Product height	280 millimetre
Product width	260 millimetre
Product weight	29 kilogram
Certifications	IEC/EN 60947 IEC
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Application	Use in unearthed supply systems at 525 V
Туре	Circuit breaker
Circuit breaker frame type	NZM4
Accessories required	NZM4-XAVS
Number of poles	Three-pole
Amperage Rating	1000 A
Release system	Electronic release
Features	Protection unit Motor drive optional
Special features	LSI overload protection and delayed and non-delayed short-circuit protective device R.m.s. value measurement and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software
	Optionally communication-capable with interface module and internal Modbus RT module or CAM Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rate short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 1000 A
Voltage rating	module or CAM Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rate short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 1000 A
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Image:	Degree of protection (IP), front side	
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Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Position of connection formain current circuit 0 Climatic proofing Damp heat, contacts, to IEC 60068-2-30 Damp heat, contacts, to IEC 60068-2-30 Damp heat, contacts, to IEC 60068-2-30 Spacial features Evice Rins. volue measurement and "memal memory" USS interface for contacts interior with Power Ngert Protective Messaer flates of the circuit breaking capacity (not Ngert Statts) Utegan, mechanical Evice Rins. volue measurement and "memal memory" USS interface for contacts interior with Power Ngert Protective Messaer flates of the circuit breaking capacity (not her circuit breaking capacity (not her circuit breaking capacity (not her circuit breaker flates) Standard terminals CAM Mesimum back-circuit breaking capacity (not her circuit breaker flates) Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busbar) Strew terminal Terminal capacity (copper solid conductor/cable) Strew treminal Terminal capacity (copper solid co	Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Number of auxiliary contacts (normally closed contacts) 0 Position of connection for main current circuit Front side Climatic proofing Damp heat _cyclic, to IC 50068-2-30 Spacial features Samp heat _cyclic, to IC 50068-2-30 Spacial features LSI overload proteins and delayed and non-delayed short-circuit protective dynamic constructive dynamic dynamic constructive dynamic dynamic constructive dynamic dynamic constructive dynamic dynam	Shock resistance	15 g (half-sinusoidal shock 11 ms)
Number of auxiliary contacts (normally open contacts) Image: contacts (normality open contacts) Image: contacts (normality open contacts) Position of connection for main current circuit Fort side Fort side Climatic proofing Damp heat, contact, to ICE 60088-2-30 Damp heat, contact, to ICE 60088-2-30 Special features LSI overload protection and delayed and non-delayed short-circuit protective device R.m.s. value measurement and "Internal memory" USB interface for delayed and non-delayed short-circuit protective device R.m.s. value measurement and "Internal memory" USB interface for delayed and non-delayed short-circuit arronation and test functions with Power Appen Trouctiles Minages solutions of delayed and non-delayed short-circuit currents at the installation location occes on the solution genericy of the circuit currents at the installation location occes on the solution genericy of the circuit current at a the installation location occes on the solution genericy of the circuit current at a the installation location occes on the solution genericy of the circuit current at a the installation location occes on the solution genericy of the circuit current at a solution at a so	Number of auxiliary contacts (change-over contacts)	0
Position of connection for main current circuitFont sideClimatic proofingDamp heat, cyclic, to EC 60088-2-30 Damp heat, cyclic, to EC 60088-2-30 Damp heat, cyclic, to Marken Lu, UEC 6008-2-30 Damp heat, cyclic, to Marken Lu, UEC 6008-2-30 Damp heat, cyclic, to Marken Lu, UEC 60088-2-30 Damp heat, cyclic, to Marken Lu, UEC 6008-2-30 Damp heat, cyclic, to Marken Lu, UEC 600	Number of auxiliary contacts (normally closed contacts)	0
Climatic proofing Bamp heat, cyclic, to IEC 60068-2-30 Special features Solid features Special features Solid features Lifespan, machanical ISI overload protection and test function in the standard internal Modbus RTU module or CAM Maximum back-up fuss, if the expected short-circuit currents at the installation location exceed the switch measurement and "thermal memory" USB interface for or configuration combined to the single capacity (Ising Capacity Ising Capacity Is	Number of auxiliary contacts (normally open contacts)	0
Special features Damp heat, constant, to IEC 60068-2-78 Special features Side of the second protection and delayed and non-delayed short-circuit protective device R.m.s. value measurement and 11 thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Optionally communication-capable with interface modules and internal Modules RIU modules or CAM Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the synthesing capacity (In) Rated current = rated uninterrupted current: 1000 A Lifespan, mechanical Image: Second	Position of connection for main current circuit	Front side
Lifespan, mechanical Connection or ear Strip terminal. Tunnel terminal Lifespan, mechanical Connection or ear Strip terminal. Tunnel terminal Standard terminals Connection on rear. Strip terminal. Tunnel terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper busber) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper solid conductor/cable) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (copper solid conductor/cable) Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (c	Climatic proofing	
Standard terminals Screw terminal Optional terminals Connection on rear. Strip terminal. Tunnel terminal Terminal capacity (control cable) 0.75 mm² - 25 mm² (1x) O.75 mm² - 240 mm² (4x) at 4-hole tunnel terminal Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) at rear-side width extension Max. 50 mm x 10 mm (2x) at rear-side vidth extension Terminal capacity (copper solid conductor/cable) Max. 50 mm x 10 mm (2x) at rear-side vidth extension Terminal capacity (copper solid conductor/cable) Max. 50 mm x 10 mm (2x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension Max. 50 mm x 10 mm (2x) at rear-side vidth extension Max. 50 mm x 10 mm (2x) at rear-side vidth extension Max. 50 mm x 10 mm (2x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extension So mm² - 240 mm² (4x) at rear-side vidth extens	Special features	device R.m.s. value measurement and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Optionally communication-capable with interface module and internal Modbus RTU module or CAM Maximum back-up fuse, if the expected short-circuit currents at the installation location exceed the switching capacity of the circuit breaker (Rated short-circuit breaking capacity Icn) Rated current = rated uninterrupted current:
Optional terminalsConnection on rear. Strip terminal. Tunnel terminalTerminal capacity (control cable)0.75 mm² - 25 mm² (1x) 0.75 mm² - 15 mm² (2x)Terminal capacity (aluminum stranded conductor/cable)50 mm² - 240 mm² (4x) at 4-hole tunnel terminalTerminal capacity (copper busbar)Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection S0 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection S0 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 26 mm x 10 mm (2x) at rear-side 1-hole module plate Min at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² -	Lifespan, mechanical	10000 operations
Optional terminalsConnection on rear. Strip terminal. Tunnel terminalTerminal capacity (control cable)0.75 mm² - 25 mm² (1x) 0.75 mm² - 15 mm² (2x)Terminal capacity (aluminum stranded conductor/cable)50 mm² - 240 mm² (4x) at 4-hole tunnel terminalTerminal capacity (copper busbar)Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection S0 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) at rear-side connection S0 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 26 mm x 10 mm (2x) at rear-side 1-hole module plate Min at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm (2x) at rear-side 1-hole module plate Min 2 mm x 10 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² - 240 mm² (4x) at rear-side 2-hole module plate Min 2 mm² -	Standard terminals	Screw terminal
Terminal capacity (control cable)0.75 mm² - 2.5 mm² (1x) 0.75 mm² - 1.5 mm² (2x)Terminal capacity (aluminum stranded conductor/cable)50 mm² - 240 mm² (4x) at 4-hole tunnel terminalTerminal capacity (copper busbar)Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 50 mm x 10 mm (2x) at rear-side vidth extension Max. 50 mm x 10 mm (2x) dat rear-side connection Max. 50 mm x 10 mm (2x) dat rear-side connection Max. 50 mm x 10 mm (2x) dat rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 1-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) dat rear-side 2-hole module plate Min. 25 mm² (4x) at rear-side 2-hole module plate Min. 20 mm² - 300 mm² (2x) at rear-side 2-hole module plate Min module plate Min 42 mm² - side 1-hole module plate Min. 20 mm² - 300 mm² (2x) at rear-side 2-hole module plate Min module plate Min 42 mar-side 1-hole module plate Min. 20 mm² - 300 mm² (2x) at rear-side 2-hole module plate Min module plate Min 42 mar-side 1-hole module plate Min 42 module plate Min 42 mar-side 1-hole module plate Min 42 morra-side 1-hole module plate Min 42 morra-side 2-hole module plate Min 42 mar-side 1-hole module plate Min 42 mar-side 1-hole module plate Min 42 mar-side 2-hole module plate Min 42 mar-		
Terminal capacity (aluminum stranded conductor/cable)50 mm² - 240 mm² (4x) at 4-hole tunnel terminalTerminal capacity (copper busbar)Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side connection Max. 80 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) at rear-side vidth extensionTerminal capacity (copper solid conductor/cable)Forminal capacity (copper solid conductor/cable)Terminal capacity (copper stranded conductor/cable)Forminal capacity (copper stranded conductor/cable)Term	· ·	0.75 mm² - 2.5 mm² (1x)
Terminal capacity (copper busbar)Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 25 mm x 5 mm direct at switch rear-side connection 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 10 mm 2 and rear-side 1-hole module plate Min. 25 mm x 10 mm x 10 mm at rear-side 1-hole module plate Min. 25 mm x 10 mm x 10 mm at rear-side 1-hole module plate Min. 20 mm² - 240 mm² (4x) at rear-side 1-hole module plate Min externsionTerminal capacity (copper stranded conductor/cable)Extended to the extension Min comm² - 185 mm² (4x) direct at switch rear-side connection Min extensionTerminal capacity (copper stranded conductor/cable)Extended to the extension Min 25 mm² - 185 mm² (1x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection		
Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 25 mm x 5 mm direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Min. 25 mm x 5 mm direct at switch rear-side connection Min. 25 mm x 10 mm (2x) direct at switch rear-side connection S0 mm x 10 mm at rear-side vidth extensionTerminal capacity (copper solid conductor/cable)50 mm² - 240 mm² (4x) at 4-hole tunnel terminal 120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side 1-hole module plate 300 mm² (4x) at rear-side 1-hole module plate 300 mm² (2x) at rear-side 1-hole module plate 300 mm² (1x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection		
120 mm² - 300 mm² (1x) at rear-side 1-hole module plate 35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side vidth extension 95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 300 mm² (4x) at rear-side vidth extension 95 mm² - 185 mm² (2x) at rear-side 1-hole module plateTerminal capacity (copper stranded conductor/cable)50 mm² - 185 mm² (4x) direct at switch rear-side connection 120 mm² - 185 mm² (1x) direct at switch rear-side connection		Max. 80 mm x 10 mm (2x) at rear-side width extension Min. 25 mm x 5 mm direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 5 mm at rear-side 1-hole module plate M10 at rear-side screw connection
120 mm ² - 185 mm ² (1x) direct at switch rear-side connection	Terminal capacity (copper solid conductor/cable)	120 mm ² - 300 mm ² (1x) at rear-side 1-hole module plate 35 mm ² - 185 mm ² (4x) at rear-side 2-hole module plate 95 mm ² - 240 mm ² (6x) at rear-side width extension 95 mm ² - 185 mm ² (2x) at rear-side 2-hole module plate 300 mm ² (4x) at rear-side width extension
Terminal capacity (copper strip) Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal	Terminal capacity (copper stranded conductor/cable)	
	Terminal capacity (copper strip)	Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal

Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched) 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate 10 segments of 80 mm x 1 mm (2x) at rear-side width extension Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal

1000 A
165 W
-25 °C
70 °C
40 °C
70 °C
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
Does not apply, since the entire switchgear needs to be evaluated.
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
Does not apply, since the entire switchgear needs to be evaluated.
Is the panel builder's responsibility.
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Systems, cable, selectivity and generator protection

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])					
Rated permanent current lu		A	1,000		
Rated voltage		V	690 - 690		
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz		kA	37		
Overload release current setting		А	400 - 1,000		
Adjustment range short-term delayed short-circuit release		A	2 - 10		
Adjustment range undelayed short-circuit release		A	2 - 18		
Integrated earth fault protection			No		
Type of electrical connection of main circuit			Other		
Device construction			Built-in device slide-in technique (withdrawable)		
Suitable for DIN rail (top hat rail) mounting			No		
DIN rail (top hat rail) mounting optional			No		
Number of auxiliary contacts as normally closed contact			0		
Number of auxiliary contacts as normally open contact			0		
Number of auxiliary contacts as change-over contact			0		

With switched-off indicator	No
With integrated under voltage release	No
Number of poles	3
Position of connection for main current circuit	Front side
Type of control element	Rocker lever
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	Yes
Degree of protection (IP)	IP20