DATASHEET - NZMN4-4-VX1000-T

NZM4 PXR20 circuit breaker, 1000A, 4p, Screw terminal, earth-fault protection



Part no.

NZMN4-4-VX1000-T 193321

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMN4-4-VX1000-T
EAN	9010238016668
Product Length/Depth	375 millimetre
Product height	170 millimetre
Product width	280 millimetre
Product weight	25.5 kilogram
Compliances	RoHS conform
Certifications	IEC IEC/EN 60947
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Globally Marketable	Yes
Application	Use in unearthed supply systems at 525 V
Туре	Circuit breaker
Circuit breaker frame type	NZM4
Number of poles	Four-pole
Amperage Rating	1000 A
Release system	Electronic release
Features	Motor drive optional Protection unit
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 F 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 (Ra short-circuit breaking capacity Icn) Rated current = rated uninterrupted current: 1000 A
Veltage rating	690 V - 690 V
Voltage rating	690 V AC
Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Ump) at advinary contacts	8000 V
Current rating of neutral conductor	200% of phase conductor
Rated short-time withstand current (t = 0.3 s)	12 kA
Rated short-time withstand current (t = 0.5 s)	12 kA
Earth-fault current setting (Ig) - min	200 x In
Earth-fault current setting (Ig) - max	1000 x In
Instantaneous current setting (li) - min	2 A
Instantaneous current setting (li) - max	18 A
Overload current setting (Ir) - min	400 A
Overload current setting (Ir) - max	1000 A
Short delay current setting (Isd) - min	2 A
Short delay current setting (Isd) - max	10 A
Short-circuit release delayed setting - min	800 A
Short-circuit release delayed setting - max	10000 A
Short-circuit release non-delayed setting - min	2000 A
Short-circuit release non-delayed setting - max	12000 A
Short-circuit release non-delayed setting - min	2000 A

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Name down crown having capacy is 19200 0000 100 0000000 10	Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	37 kA
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Terminal capacity (control cable) 0.75 mm² - 2.5 mm² (1x) Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 1.5 mm² (2x) Terminal capacity (copper busbar) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 60 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 connection Min. 25 mm x 10 mm (2x) at rear-side width extension		
Terminal capacity (copper busbar) Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 60 mm x 10 mm at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate 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 5 mm direct at switch rear-side connection Min. 28 mm x 10 mm (2x) at rear-side width extension Max. 80 mm x 10 mm (2x) at rear-side width extension	•	0.75 mm ² - 2.5 mm ² (1x)
Min. 60 mm x 10 mm at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate 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 M10 at rear-side connection M10 at rear-side width extension Max. 80 mm x 10 mm (2x) at rear-side width extension	Terminal capacity (aluminum stranded conductor/cable)	50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal
	Terminal capacity (copper busbar)	Min. 60 mm x 10 mm at rear-side width extension 50 mm x 10 mm (2x) at rear-side 2-hole module plate 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 M10 at rear-side screw connection Max. 80 mm x 10 mm (2x) at rear-side width extension

Terminal capacity (copper solid conductor/cable)	120 mm ² - 300 mm ² (1x) at rear-side 1-hole module plate 50 mm ² - 240 mm ² (4x) at 4-hole tunnel terminal 95 mm ² - 185 mm ² (2x) at rear-side 2-hole module plate 300 mm ² (4x) at rear-side width extension 95 mm ² - 240 mm ² (6x) at rear-side width extension
	35 mm² - 185 mm² (4x) at rear-side 2-hole module plate 95 mm² - 300 mm² (2x) at rear-side 1-hole module plate
Terminal capacity (copper stranded conductor/cable)	50 mm ² - 185 mm ² (4x) direct at switch rear-side connection 120 mm ² - 185 mm ² (1x) direct at switch rear-side connection
Terminal capacity (copper strip)	10 segments of 80 mm x 1 mm (2x) at rear-side width extension 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 Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal
Rated operational current for specified heat dissipation (In)	1000 A
Equipment heat dissipation, current-dependent	165 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	70 °C
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.
Functions	Earth-fault protection Systems, cable, selectivity and generator protection Integrated earth fault 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	А	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	А	2 - 10
Adjustment range undelayed short-circuit release	А	2 - 18

Yes
Screw connection
Built-in device fixed built-in technique
No
No
0
0
0
No
No
4
Front side
Rocker lever
Yes
No
Yes
IP20