## NZM4 PXR20 circuit breaker, 630A, 3p, Screw terminal, earth-fault protection



Part no. NZMN4-VX630-T 193310

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMN4-VX630-T
EAN	9010238016552
Product Length/Depth	375 millimetre
Product height	170 millimetre
Product width	210 millimetre
Product weight	19 kilogram
Compliances	RoHS conform
Certifications	IEC
7ei uiicauoiis	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
Гуре	Circuit breaker
Circuit breaker frame type	NZM4
Number of poles	Three-pole
Amperage Rating	630 A
Release system	Electronic release
Features	Protection unit
outui oo	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 module or CAM Maximum back-up fuse, if the expected short-circuit currents the installation location exceed the switching capacity of the circuit breaker (R short-circuit breaking capacity Icn) Rated current = rated uninterrupted current 630 A
Voltage rating	690 V - 690 V
Rated insulation voltage (Ui)	690 V AC
nateu ilisulatioli voitaue (OI)	030 V AC
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Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts	6000 V 8000 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)	6000 V 8000 V 12 kA
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)	6000 V 8000 V 12 kA 12 kA
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)  Earth-fault current setting (Ig) - min	6000 V 8000 V 12 kA 12 kA
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)  Earth-fault current setting (lg) - min  Earth-fault current setting (lg) - max	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)  Earth-fault current setting (Ig) - min  Earth-fault current setting (Ig) - max  Instantaneous current setting (Ii) - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)  Earth-fault current setting (Ig) - min  Earth-fault current setting (Ig) - max  Instantaneous current setting (Ii) - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A
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Rated impulse withstand voltage (Uimp) at auxiliary contacts  Rated impulse withstand voltage (Uimp) at main contacts  Rated short-time withstand current (t = 0.3 s)  Rated short-time withstand current (t = 1 s)  Earth-fault current setting (Ig) - min  Earth-fault current setting (Ig) - max  Instantaneous current setting (Ii) - min  Instantaneous current setting (Ii) - max  Overload current setting (Ir) - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Earth-fault current setting (Ig) - min Earth-fault current setting (Ig) - max Instantaneous current setting (Ii) - min Overload current setting (Ir) - min Overload current setting (Ir) - max Short delay current setting (Isd) - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Earth-fault current setting (Ig) - min Earth-fault current setting (Ig) - max Instantaneous current setting (Ii) - min Instantaneous current setting (Ii) - max Overload current setting (Ir) - min Overload current setting (Ir) - max Short delay current setting (Isd) - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A 2 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Earth-fault current setting (Ig) - min Earth-fault current setting (Ig) - max Instantaneous current setting (Ii) - min Instantaneous current setting (Ii) - max Overload current setting (Ir) - min Overload current setting (Ir) - max Short delay current setting (Isd) - max Short-circuit release delayed setting - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A 2 A 10 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Earth-fault current setting (Ig) - min Earth-fault current setting (Ig) - max Instantaneous current setting (Ii) - min Instantaneous current setting (Ii) - max Overload current setting (Ir) - min Overload current setting (Ir) - max Short delay current setting (Isd) - min Short-circuit release delayed setting - min Short-circuit release delayed setting - max	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A 2 A 10 A 630 A
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts Rated short-time withstand current (t = 0.3 s) Rated short-time withstand current (t = 1 s) Earth-fault current setting (Ig) - min Earth-fault current setting (Ig) - max Instantaneous current setting (Ii) - min Instantaneous current setting (Ii) - max Overload current setting (Ir) - min Overload current setting (Ir) - max Short delay current setting (Isd) - max Short-circuit release delayed setting - min	6000 V 8000 V 12 kA 12 kA 125 x In 630 x In 1260 A 22680 A 315 A 630 A 2 A 10 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	37 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	26 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	19 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	15 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	105 kA
Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz	105 kA
Rated short-circuit making capacity Icm at 440 V, 50/60 Hz	74 kA
Rated short-circuit making capacity Icm at 525 V, 50/60 Hz	53 kA
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	40 kA
Short-circuit total breaktime	< 25 ms (≦ 415 V); < 35 ms (> 415 V)
Electrical connection type of main circuit	Screw connection
Isolation	500 V AC (between auxiliary contacts and main contacts) 300 V AC (between the auxiliary contacts)
Number of operations per hour - max	60
Handle type	Rocker lever
Utilization category	B (2000A: A, IEC/EN 60947-2)
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	2000 operations at 415 V AC-3 1000 operations at 690 V AC-3 3000 operations at 415 V AC-1 2000 operations at 400 V AC-3 2000 operations at 690 V AC-1 3000 operations at 400 V AC-1
Direction of incoming supply	As required
Mounting Method	Built-in device fixed built-in technique Fixed
Degree of protection	IP20 IP20 (basic degree of protection, in the operating controls area)
Degree of protection (IP), front side	IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Shock resistance	15 g (half-sinusoidal shock 11 ms)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Front side
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 LSI overload protection and delayed and non-delayed short-circuit protective
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 RTI 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: 630 A
Lifespan, mechanical	10000 operations
Standard terminals	Screw terminal
Optional terminals	Connection on rear. Strip terminal. Tunnel terminal
Terminal capacity (control cable)	0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (2x) 0.75 mm <sup>2</sup> - 2.5 mm <sup>2</sup> (1x)
Terminal capacity (aluminum stranded conductor/cable)	50 mm <sup>2</sup> - 240 mm <sup>2</sup> (4x) at 4-hole tunnel terminal
Terminal capacity (copper busbar)	Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 80 mm x 10 mm (2x) at rear-side width extension M10 at rear-side screw connection Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate Min. 25 mm x 5 mm direct at switch rear-side connection Min. 60 mm x 10 mm at rear-side width extension 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
Terminal capacity (copper solid conductor/cable)	95 mm² - 185 mm² (2x) at rear-side 2-hole module plate 95 mm² - 240 mm² (6x) at rear-side width extension

observed.		300 mm² (4x) at rear-side width extension $35  \text{mm}^2$ - $185  \text{mm}^2$ (4x) at rear-side 2-hole module plate $120  \text{mm}^2$ - $300  \text{mm}^2$ (1x) at rear-side 1-hole module plate $50  \text{mm}^2$ - $240  \text{mm}^2$ (4x) at 4-hole tunnel terminal $95  \text{mm}^2$ - $300  \text{mm}^2$ (2x) at rear-side 1-hole module plate
Min. 6 segments of 16 mm x 10 mm cal at flac conductor reminal (10 segments of 26 mm x 10 mm) cal at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side width extension Max. 10 segments of 26 mm x 1 mm (24) at rear-side conductors Max. 10 segments of 26 mm x 1 mm (24) at rear-side conductors (25 mm x 1	Terminal capacity (copper stranded conductor/cable)	
Equipment heat dissipation, current-dependent Ambient operating temperature - min Ambient operating temperature - max 70 °C Ambient storage temperature - min 40 °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 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.3 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchpear needs to be evaluated. 10.2.6 Machanical impact Does not apply, since the entire switchpear 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 switchpear 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 switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.8 Therenal electrical circuits and connections Is the panel builder's responsibility. 10.9 Temperature rise In the panel builder's responsibility. 10.9 Temperature rise The panel builder's responsibility. 10.9 Temperature rise The panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. The specifications for the switchpear must observed. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function	Terminal capacity (copper strip)	Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal 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 50 mm x 1 mm (2x) at rear-side connection (punched)
Equipment heat dissipation, current-dependent Ambient operating temperature - min Ambient operating temperature - max 70 °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 10.2.3 Resistance to ultra-violet (UV) radiation 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 switchpear needs to be evaluated. 10.2.6 Machanical impact Does not apply, since the entire switchpear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Dees not apply, since the entire switchpear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric switchpear needs to be evaluated. 10.6 Fortaction against electric switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchpear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connecti	Rated operational current for specified heat dissination (In)	630 A
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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function	· · · · · · · · · · · · · · · · · · ·
Functions  Systems, cable, selectivity and generator protection  Earth-fault protection  Integrated earth fault protection	Functions	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])

protection (eci@ss10.0.1-21-31-04-09 [AJZ/10013])		
Rated permanent current lu	А	630
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	37
Overload release current setting	А	315 - 630
Adjustment range short-term delayed short-circuit release	А	2 - 10
Adjustment range undelayed short-circuit release	А	1,260 - 22,680
Integrated earth fault protection		Yes

Device construction  Built-in device fixed built-in technique  No  No  No  No  No  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No  With integrated under voltage release  No  No  No  No  No  No  No  No  No  N		
Suitable for DIN rail (top hat rail) mounting DIN rail (top hat rail) mounting optional Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as change-over contact O Number of auxiliary contacts as change-over contact O Number of auxiliary contacts as change-over contact O No With switched-off indicator With integrated under voltage release No No Number of poles Solven in ain current circuit Front side Type of control element Complete device with protection unit Motor drive integrated Motor drive optional  No Motor drive optional  No	Type of electrical connection of main circuit	Screw connection
DIN rail (top hat rail) mounting optional  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No  With switched-off indicator  With integrated under voltage release  No  Number of poles  Society of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  No  No  No  No  No  No  No  No  No  N	Device construction	Built-in device fixed built-in technique
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  No  With switched-off indicator  With integrated under voltage release  No  Number of poles  3  Position of connection for main current circuit  Front side  Type of control element  Complete device with protection unit  Wotor drive integrated  Motor drive optional  No  Yes	Suitable for DIN rail (top hat rail) mounting	No
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No With switched-off indicator  With integrated under voltage release  No Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  O  O  O  No  No  No  No  Rocker lever  No  No  Yes	DIN rail (top hat rail) mounting optional	No
Number of auxiliary contacts as change-over contact  With switched-off indicator  With integrated under voltage release  No  Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Wotor drive optional  O  No  No  No  No  No  Ves	Number of auxiliary contacts as normally closed contact	0
With switched-off indicator  With integrated under voltage release  No  Number of poles  Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive optional  No  No  No  No  No  Yes	Number of auxiliary contacts as normally open contact	0
With integrated under voltage release  No Number of poles  Societion of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive optional  No  No  No  Yes	Number of auxiliary contacts as change-over contact	0
Number of poles  Position of connection for main current circuit  Front side  Type of control element  Complete device with protection unit  Motor drive integrated  Motor drive optional  3  Rocker lever  Yes  No  Yes	With switched-off indicator	No
Position of connection for main current circuit  Type of control element  Complete device with protection unit  Motor drive optional  Front side  Rocker lever  Yes  No  Yes	With integrated under voltage release	No
Type of control element Complete device with protection unit Motor drive optional  Rocker lever  Yes  No  Yes	Number of poles	3
Complete device with protection unit  Motor drive optional  Yes  No  Yes	Position of connection for main current circuit	Front side
Motor drive integrated No Yes	Type of control element	Rocker lever
Motor drive optional Yes	Complete device with protection unit	Yes
	Motor drive integrated	No
Degree of protection (IP)	Motor drive optional	Yes
	Degree of protection (IP)	IP20