DATASHEET - NZMN3-PMX350-NA

NZM3 PXR25 circuit breaker, 350A, 3p, Screw terminal, UL/CSA



Part no.

NZMN3-PMX350-NA 193351

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMN3-PMX350-NA
EAN	9010238016965
Product Length/Depth	166 millimetre
Product height	275 millimetre
Product width	140 millimetre
Product weight	7.054 kilogram
Compliances	RoHS conform
Certifications	UL508 UL 489 UL (File No. E31593) IEC 60947-2 IEC CSA (File No. 22086) UL/CSA UL listed Specially designed for North America IEC/EN 60947 CSA-C22.2 No. 5-09 CE marking UL (Category Control Number DIVQ) CSA (Class No. 1432-01) CSA certified
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Globally Marketable	Yes
Application	Branch circuits, feeder circuits Use in unearthed supply systems at 690 V
Туре	Circuit breaker
Circuit breaker frame type	NZM3
Number of poles	Three-pole
Amperage Rating	350 A
Release system	Electronic release
Special features	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) Motor protection - overload- and short-circuit protective device LI Motor Class 1 energy measurement, phase loss protection, r.m.s. value measurement, and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Interface module in equipment supplied. Optionally communication-capable with interface module and internal Modbus RTU module or CAM Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Rated current = rated uninterrupted current: 350 A
Fitted with:	Thermal protection
Voltage rating	690 V - 690 V
Rated operating voltage Ue (UL) - max	600 V
Rated insulation voltage (Ui)	690 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Rated operational current	450 A (660-690 V AC-3, making and breaking capacity) 630 A (690 V AC-1, making and breaking capacity) 630 A (400 V AC-1, making and breaking capacity) 500 A (415 V AC-1, making and breaking capacity)
Rated short-time withstand current (t = 0.3 s)	3.3 kA
Rated short-time withstand current (t = 1 s)	3.3 kA
Instantaneous current setting (li) - min	700 A
Instantaneous current setting (li) - max	5250 A

Overload current setting (Ir) - min	175 A
Overload current setting (Ir) - max	350 A
Short-circuit release non-delayed setting - min	700 A
Short-circuit release non-delayed setting - max	5250 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	85 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	35 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	35 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz	13 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz	5 kA
Rated short-circuit making capacity Icm at 240 V, 50/60 Hz	187 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
Rated operating power at AC-3, 230 V	110 kW
Rated operating power at AC-3, 400 V	200 kW
Short-circuit total breaktime	< 10 ms
Electrical connection type of main circuit	Screw connection
Isolation	300 V AC (between the auxiliary contacts) 500 V AC (between auxiliary contacts and main contacts)
Number of operations per hour - max	60
Handle type	Rocker lever
Utilization category	A (IEC/EN 60947-2)
Overvoltage category	Ш
Pollution degree	3
Lifespan, electrical	2000 operations at 415 V AC-3 3000 operations at 690 V AC-1 2000 operations at 400 V AC-3 5000 operations at 400 V AC-1 2000 operations at 690 V AC-3
Direction of incoming supply	As required
Mounting Method	Fixed Built-in device fixed built-in technique
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)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and strip terminal)
Protection against direct contact	Finger and back-of-hand proof to VDE 0106 part 100
Shock resistance	20 g (half-sinusoidal shock 20 ms)
Switch off technique	Electronic
Climatic proofing	Damp heat, constant, to IEC 60068-2-78
	Damp heat, cyclic, to IEC 60068-2-30
Special features	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) Motor protection - overload- and short-circuit protective device LI Motor Class 1 energy measurement, phase loss protection, r.m.s. value measurement, and "thermal memory" USB interface for configuration and test function with Power Xpert Protection Manager software Interface module in equipment supplied. Optionally communication-capable with interface module and internal Modbus RTU module or CAM Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate. Rated current = rated uninterrupted current: 350 A
Lifespan, mechanical	15000 operations
Standard terminals	Screw terminal
Terminal capacity (copper busbar)	M10 at rear-side screw connection
Rated operational current for specified heat dissipation (In)	350 A
Equipment heat dissipation, current-dependent Ambient operating temperature - min	36.75 W -25 °C

Ambient energeting temperature may	70 °C	
Ambient operating temperature - max		
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 temp provide heat dissipation data for the devices	
10.11 Short-circuit rating	Is the panel builder's responsibility. The spec observed.	cifications for the switchgear must be
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The spec observed.	cifications for the switchgear must be
10.13 Mechanical function	The device meets the requirements, provided leaflet (IL) is observed.	d the information in the instruction
Functions	Current limiting circuit breaker Motor protection Phase failure sensitive	

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 [AGZ529016])

Overload release current setting	А	175 - 350
Adjustment range undelayed short-circuit release	А	700 - 5,250
With thermal protection		Yes
Phase failure sensitive		Yes
Switch off technique		Electronic
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	350
Rated operation power at AC-3, 230 V	kW	110
Rated operation power at AC-3, 400 V	kW	200
Type of electrical connection of main circuit		Screw connection
Type of control element		Rocker lever
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3
Rated short-circuit breaking capacity Icu at 400 V, AC	kA	35
Degree of protection (IP)		IP20
Height	mm	275
Width	mm	140
Depth	mm	166