






NZM3 PXR10 circuit breaker, 600A, 3p, Screw terminal, UL/CSA

Part no. **NZMN3-AX600-NA**
 Catalog No. **192486**

Delivery program

Product range				Circuit-breaker
Protective function				System and cable protection
Standard/Approval				UL/CSA, IEC
Release system				Electronic release
Installation type				Fixed
Description				Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate.
Frame size				NZM3
Number of poles				3 pole
Switching capacity				
SCCR 480Y/277 V 60 Hz	I_{cu}	kA		42
SCCR 480 V 60 Hz	I_{cu}	kA		42
SCCR 600Y/347 V 60 Hz	I_{cu}	kA		35
SCCR 600 V 60 Hz	I_{cu}	kA		35
Rated current = rated uninterrupted current				
Rated current = rated uninterrupted current	$I_n = I_u$	A		600
Setting range				
Overload trip				
	I_r	A		240 - 600
Short-circuit releases				
				
Non-delayed	$I_i = I_n \times \dots$			2 - 8
				

Technical data

General

Ambient temperature				
Ambient temperature, storage		°C		- 40 - + 70
Operation		°C		-25 - +70

Circuit-breakers

Rated insulation voltage	U_i	V		690
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Switching capacity

Technical data that diverge from products for the IEC market				
Switching capacity of NA switches (UL489, CSA 22.2 No. 5.1)				
Short-circuit current rating SCCR				
SCCR 240 V 60 Hz	I_{cu}	kA		85
SCCR 480Y/277 V 60 Hz	I_{cu}	kA		42
SCCR 480 V 60 Hz	I_{cu}	kA		42
SCCR 600Y/347 V 60 Hz	I_{cu}	kA		35
SCCR 600 V 60 Hz	I_{cu}	kA		35

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	600
Equipment heat dissipation, current-dependent	P_{vid}	W	108
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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) / 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 I_u		A	600
Rated voltage		V	690 - 690
Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz		kA	50
Overload release current setting		A	240 - 600
Adjustment range short-term delayed short-circuit release		A	0 - 0
Adjustment range undelayed short-circuit release		A	2 - 800
Integrated earth fault protection			No
Type of electrical connection of main circuit			Screw connection
Device construction			Built-in device fixed built-in technique
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

Approvals

Product Standards			UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.			E31593
UL Category Control No.			DIVQ
CSA File No.			022086
CSA Class No.			1432-01
North America Certification			UL listed, CSA certified
Specially designed for North America			Yes
Suitable for			Feeder circuits, branch circuits
Current Limiting Circuit-Breaker			Yes
Max. Voltage Rating			600 V
Degree of Protection			IEC: IP20; UL/CSA Type: -

Additional product information (links)

additional technical information for NZM power switch	https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf
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