DATASHEET - NZMH2-VX160-NA

NZM2 PXR20 circuit breaker, 160A, 3p, Screw terminal, UL/CSA



Part	no.
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NZMH2-VX160-NA 192474

Product name	Eaton Moeller series NZM molded case circuit breaker electronic
Part no.	NZMH2-VX160-NA
EAN	4015081932023
Product Length/Depth	149 millimetre
Product height	195 millimetre
Product width	105 millimetre
Product weight	2.345 kilogram
Compliances	RoHS conform
Certifications	CSA-C22.2 No. 5-09 IEC 60947-2 CSA (Class No. 1432-01) UL 489 IEC UL (Category Control Number DIVQ) CSA (File No. 22086) UL listed CSA certified UL (File No. E31593) Specially designed for North America UL/CSA CE marking
Product Tradename	NZM
Product Type	Molded case circuit breaker
Product Sub Type	Electronic
Application	Branch circuits, feeder circuits
Туре	Circuit breaker
Circuit breaker frame type	NZM2
Number of poles	Three-pole
Amperage Rating	160 A
Release system	Electronic release
Features	Protection unit Motor drive optional
Special features	Rated current = rated uninterrupted current: 160 A Switches conform to UL/CSA as well as the IEC regulations. IEC switching performance values are contained on the rating plate.
Voltage rating	690 V - 690 V
Rated operating voltage Ue (UL) - max	600Y/347 V, 480 V
Rated insulation voltage (Ui)	690 V AC
Instantaneous current setting (Ii) - min	2 A
Instantaneous current setting (li) - max	18 A
Overload current setting (Ir) - min	64 A
Overload current setting (Ir) - max	160 A
Short delay current setting (Isd) - min	320 A
Short delay current setting (Isd) - max	1600 A
Short-circuit release delayed setting - min	128 A
Short-circuit release delayed setting - max	1600 A
Short-circuit release non-delayed setting - min	320 A
Short-circuit release non-delayed setting - max	2880 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	150 kA
Electrical connection type of main circuit	Screw connection
Handle type	Rocker lever

Degree of protection P20 Protection against direct contact Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110 Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally closed contacts) 0 Position of connection for main current circuit Front side Special features Rated current = rated uninterrupted current: 160 A Switches conform to UL will as the IEC regulations. IEC switching performance values are contain rating plate. Standard terminals Screw terminal Rated operational current for specified heat dissipation (In) 160 A Equipment heat dissipation, current-dependent 21.12 W Ambient operating temperature - min 70 °C Ambient storage temperature - max 70 °C Ambient storage temperature - max 70 °C
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 Special features Rated current = rated uninterrupted current: 160 A Switches conform to UL well as the IEC regulations. IEC switching performance values are contained are integrating plate. Standard terminals Screw terminal Rated operational current for specified heat dissipation (In) 160 A Equipment heat dissipation, current-dependent 21.12 W Ambient operating temperature - min 70 °C Ambient storage temperature - min 0 °C
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Number of auxiliary contacts (normally open contacts) 0 Position of connection for main current circuit Font side Special features Rated current = rated uninterrupted current: 160 A Switches conform to UL well as the IEC regulations. IEC switching performance values are contained rating plate. Standard terminals Screw terminal Rated operational current for specified heat dissipation (In) Font Side Rated operating temperature - min 160 A Ambient operating temperature - max 25 °C Ambient storage temperature - min 100 °C
Position of connection for main current circuit Front side Special features Rated current = rated uninterrupted current: 160 A Switches conform to UL well as the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulations. IEC switching performance values are container and grade of the IEC regulation. Rated operating temperature - min IEC sec
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Image: Standard terminals Image:
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Rated operational current for specified heat dissipation (In) 160 A Equipment heat dissipation, current-dependent 160 A Ambient operating temperature - min -25 °C Ambient storage temperature - min 70 °C Ambient storage temperature - min 40 °C
Equipment heat dissipation, current-dependent 21.12 W Ambient operating temperature - min -25 °C Ambient operating temperature - max 70 °C Ambient storage temperature - min 40 °C
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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
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 provide heat dissipation data for the devices.
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear robserved.
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear robserved.
10.13 Mechanical function The device meets the requirements, provided the information in the instruction 10.13 Mechanical function Image: Comparison of the information of the information of the instruction
Functions Systems, cable, selectivity and generator protection Current limiting circuit breaker

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 for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

 Rated permanent current lu
 A
 160

 Rated voltage
 V
 690 - 690

 Rated short-circuit breaking capacity lcu at 400 V, 50 Hz
 kA
 150

 Overload release current setting
 A
 64 - 160

Adjustment range short-term delayed short-circuit release	А	320 - 1,600
Adjustment range undelayed short-circuit release	А	2 - 18
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		Yes
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