Eaton 192263

Catalog Number: 192263

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM3 PXR25, class 1, 630A, 3p, Screw terminal, earth-fault protection, ARMS and zone selectivity, H, 3

General specifications

Product Name

Eaton Moeller series NZM molded case 192263 circuit breaker electronic Model C

EAN

4015081928149

Product Height 120.5 mm

Product Weight 6.65 kg

Certifications IEC IEC/EN 60947 192263 Model Code NZMH3-PX630-TAZ

Catalog Number

Product Length/Depth 275 mm

Product Width 140 mm

Compliances RoHS conform



Photo is representative



defaultTaxonomyAttributeLabel

Туре

Circuit breaker

Special features

LSIG overload protection and delayed and nondelayed short-circuit protective device, earth-fault protection Class 1 energy measurement, r.m.s. value measurement, and "thermal memory" USB interface for configuration and test function with Power Xpert **Protection Manager** software Zone selectivity ZSI Maintenance Mode ARMS Interface module in equipment supplied. Optionally communicationcapable with internal Modbus RTU 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 (Rated shortcircuit breaking capacity Icn) Rated current = rated uninterrupted current: 630 A Terminal capacity hint: Up to 240 mm² can be connected depending on the cable manufacturer.

Application

Use in unearthed supply systems at 690 V

Amperage Rating

630 A

Voltage rating

Resources

Brochures

eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf eaton-digital-nzm-brochure-br013003en-en-us.pdf

Catalogs eaton-digital-nzm-catalog-ca013003en-en-us.pdf

Characteristic curve

eaton-circuit-breaker-nzm-mccb-characteristic-curve-012.eps eaton-circuit-breaker-nzm-mccb-characteristic-curve-016.eps

Drawings eaton-circuit-breaker-nzm-mccb-dimensions-020.eps eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps

Installation instructions eaton-circuit-breaker-basic-unit-bg3-il012100zu.pdf

Installation videos Introduction of the new digital circuit breaker NZM The new digital NZM Range

mCAD model DA-CD-nzm3_3p

DA-CS-nzm3_3p

Technical data sheets eaton-nzm-technical-information-sheet

690 V - 690 V

Circuit breaker frame type

NZM3

Features

Motor drive optional Protection unit

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.

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.

Pollution degree

3

Mounting Method

Fixed Built-in device fixed built-in technique

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Equipment heat dissipation, current-dependent 119.07 W

Utilization category A (IEC/EN 60947-2)

Isolation 300 V AC (between the auxiliary contacts)

500 V AC (between auxiliary contacts and main contacts)

Ambient operating temperature - max 70 °C

Ambient operating temperature - min -25 °C

Ambient storage temperature - max

70 °C

Ambient storage temperature - min 40 °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

Protection against direct contact

Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110

Degree of protection

IP20

IP20 (basic degree of protection, in the operating controls area)

Direction of incoming supply

As required

Electrical connection type of main circuit Screw connection

Lifespan, mechanical

15000 operations

Overvoltage category

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Degree of protection (IP), front side

IP66 (with door coupling rotary handle) IP40 (with insulating surround)

Degree of protection (terminations)

IP00 (terminations, phase isolator and strip terminal) IP10 (tunnel terminal)

Number of poles

Three-pole

Terminal capacity (copper strip)

10 segments of 50 mm x 1 mm (2x) at rear-side width extension Max. 8 segments of 24 mm x 1 mm (2x) at box terminal Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm

Min. 6 segments of 16 mm x 0.8 mm at box terminal

Min. 6 segments of 16 mm x 0.8 mm at rear-side connection

(punched)

Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)

Lifespan, electrical

5000 operations at 415 V AC-1 3000 operations at 690 V AC-1 5000 operations at 400 V AC-1

Functions

Systems, cable, selectivity and generator protection ARMS maintenance mode Zone selectivity Earth-fault protection Integrated earth fault protection

Earth-fault current setting (Ig) - max

630 x In

Shock resistance 20 g (half-sinusoidal shock 20 ms)

Earth-fault current setting (Ig) - min

126 x In

Position of connection for main current circuit

Front side

Rated operational current for specified heat dissipation (In) 630 A

Release system

Electronic release

Short-circuit total breaktime

< 10 ms

Rated short-time withstand current (t = 0.3 s) 3.3 kA

Rated short-time withstand current (t = 1 s) 3.3 kA

Short-circuit release delayed setting - max 4410 A

Short-circuit release delayed setting - min 378 A

Short-circuit release non-delayed setting - max 5040 A

Short-circuit release non-delayed setting - min 1260 A

Terminal capacity (control cable)

0.75 mm² - 1.5 mm² (2x) 0.75 mm² - 2.5 mm² (1x)

Terminal capacity (copper busbar)

Max. 10 mm x 50 mm (2x) at rear-side width extension M10 at rear-side screw connection Min. 20 mm x 5 mm direct at switch rear-side connection Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection

Terminal capacity (copper solid conductor/cable)

16 mm² (1x) at tunnel terminal
16 mm² (2x) direct at switch rear-side connection
16 mm² (2x) at box terminal
300 mm² (2x) at rear-side width extension
16 mm² (1x) direct at switch rear-side connection

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

Terminal capacity (copper stranded conductor/cable)

25 mm² - 240 mm² (1x) direct at switch rear-side connection 25 mm² - 240 mm² (2x) direct at switch rear-side connection 35 mm² - 240 mm² (1x) at box terminal 25 mm² - 120 mm² (2x) at box terminal 16 mm² - 185 mm² (1x) at 1-hole tunnel terminal

Terminal capacity (aluminum stranded conductor/cable)

50 mm² - 240 mm² (1x) at 2-hole tunnel terminal 25 mm² - 185 mm² (1x) at tunnel terminal 50 mm² - 240 mm² (2x) at 2-hole tunnel terminal

Handle type

Rocker lever

Short delay current setting (Isd) - max 7 A

Short delay current setting (Isd) - min 1.5 A

Instantaneous current setting (li) - max 10080 A

Instantaneous current setting (li) - min 1260 A

Number of operations per hour - max 60

Overload current setting (Ir) - max

630 A

Overload current setting (Ir) - min

252 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz

150 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz

150 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz

130 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz

33 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz

9 kA

Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz 330 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz 286 kA

Rated short-circuit making capacity Icm at 525 V, 50/60 Hz 143 kA

Rated short-circuit making capacity Icm at 690 V, 50/60 Hz 74 kA

Standard terminals

Screw terminal

Optional terminals

Box terminal. Connection on rear. Tunnel terminal

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz 330 kA $\,$

Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V

Rated impulse withstand voltage (Uimp) at main contacts 8000 V

Rated insulation voltage (Ui) 690 V AC



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