Eaton 266016

Catalog Number: 266016

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switchdisconnector 4p 250A BG2



Photo is representative

General specifications

Product Name Eaton Moeller series NZM switchdisconnector

EAN 4015082660161

Product Height 185 mm

Product Weight 2.442 kg

Certifications IEC/EN 60947 IEC Catalog Number 266016

Model Code N2-4-250

Product Length/Depth 142 mm

Product Width 140 mm

Compliances RoHS conform



defaultTaxonomyAttributeLabel

Туре

Switch-disconnector

Special features

Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 250 A The rated short-time withstand current for PN2/N2 in conjunction with earth-fault release NZM2-4-XFI...Icw = 1.5 kA

Application

Use in unearthed supply systems at 690 V

Amperage Rating

250 A

Voltage rating 690 V - 690 V

Circuit breaker frame type N2

Features Version as main switch Version as maintenance-/service switch Motor drive optional

Version as emergency stop installation

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.

Resources

Brochures

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

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

Certification reports DA-DC-03_N2

Drawings eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps

eaton-circuit-breaker-nzm-mccb-dimensions-035.eps

eCAD model DA-CE-ETN.N2-4-250

Installation instructions eaton-circuit-breakers-nzm2-basic-device-bg2-instruction-leafletil01206006z.pdf

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

mCAD model DA-CD-nzm2_4p DA-CS-nzm2_4p

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

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

Built-in device fixed built-in technique Fixed Distribution board installation Intermediate mounting Ground mounting

Climatic proofing

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

Equipment heat dissipation, current-dependent 48 W

Isolation

300 V AC (between the auxiliary contacts)500 V AC (between auxiliary contacts and main contacts)

Rated short-time withstand current (Icw)

3.5 kA

Degree of protection

IP20 (basic protection type, in the area of the HMI devices) Other

Direction of incoming supply

As required

Electrical connection type of main circuit Screw connection

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 Rated insulation voltage (Ui) 690 V Rated operating frequency 50 Hz Rated operating power at AC-23, 400 V 132 kW Rated operating power at AC-3, 400 V 0 kW Switch positions I, +, 0 Lifespan, mechanical 20000 operations Overvoltage category Ш Rated operational current 250 A (415 V AC-22/23A, making and breaking capacity) 250 A (690 V AC-22/23A, making and breaking capacity)

Degree of protection (IP), front side

IP40 (with insulating surround) IP20 IP66 (with door coupling rotary handle)

Degree of protection (terminations)

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

Number of poles

Four-pole

Terminal capacity (copper strip)

Max. 10 segments of 24 mm x 0.8 mm at rear-side connection (punched) Min. 2 segements of 16 mm x 0.8 mm at rear-side connection (punched) Min. 2 segments of 9 mm x 0.8 mm at box terminal Max. 10 segments of 16 mm x 0.8 mm at box terminal Max. 8 segments of 15.5 mm x 0.8 mm (2x) at box terminal

Handle color

Black

Lifespan, electrical

7500 operations at 400 V AC-1 4000 operations at 690 V AC-3 5000 operations at 690 V AC-1 6000 operations at 400 V AC-3 6000 operations at 415 V AC-3 7500 operations at 415 V AC-1

Functions

Disconnectors/main switches Interlockable Voltage release optional

Shock resistance

20 g (half-sinusoidal shock 20 ms)

Number of switches

1

Rated conditional short-circuit current (Iq) 0 kA

Rated conditional short-circuit current with back-up fuse 80 kA at 690 V PN2(N2)-160...250: 250 AgGgL 100 kA at 400/415 V

Rated conditional short-circuit current with downstream fuse PN2(N2)-160...250: 250 AgGgL 100 kA at 400/415 V 80 kA at 690 V

Rated operating voltage (Ue) at AC - max 690 V

Rated operational current for specified heat dissipation (In) 250 A

Rated permanent current at AC-21, 400 V 0 A

Rated permanent current at AC-23, 400 V

0 A

Rated short-time withstand current (t = 0.3 s) 3.5 kA

Rated short-time withstand current (t = 1 s) 3.5 kA

Switching power at 400 V

0 kW

Handle type

Rocker lever

Number of operations per hour - max 120

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

5.5 kA

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

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

Standard terminals

Screw terminal

Optional terminals Box terminal. Connection on rear. Tunnel terminal

Short-circuit protective device fuses - max 250 A gL

Terminal capacity (copper busbar)

M8 at rear-side screw connection Max. 24 mm x 8 mm direct at switch rear-side connection Min. 16 mm x 5 mm direct at switch rear-side connection

Terminal capacity (copper solid conductor/cable)

10 mm² - 16 mm² (1x) at box terminal
16 mm² (1x) at tunnel terminal
10 mm² - 16 mm² (1x) direct at switch rear-side connection
6 mm² - 16 mm² (2x) at box terminal
6 mm² - 16 mm² (2x) direct at switch rear-side connection

Terminal capacity (aluminum solid conductor/cable)

10 mm² - 16 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) direct at switch rear-side connection 16 mm² (1x) at tunnel terminal

Terminal capacity (copper stranded conductor/cable) 25 mm² - 185 mm² (1x) at box terminal

- 25 mm² 185 mm² (1x) at 1-hole tunnel terminal
- 25 mm² 70 mm² (2x) direct at switch rear-side connection
- 25 mm² 70 mm² (2x) at box terminal
- 25 mm² 185 mm² (1x) direct at switch rear-side connection

Terminal capacity (aluminum stranded conductor/cable)

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



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