Eaton 266028

Catalog Number: 266028

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switchdisconnector 3p 1600A BG4



Photo is representative

General specifications

Product Name Eaton Moeller series NZM switchdisconnector

EAN 4015082660284

Product Height 207 mm

Product Weight 19.2 kg

Certifications IEC/EN 60947 IEC Catalog Number 266028

Model Code N4-1600

Product Length/Depth 401 mm

Product Width 210 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: 1600 A

Application Use in unearthed supply systems at 525 V

Amperage Rating 1600 A

Voltage rating 690 V - 690 V

Circuit breaker frame type N4

Features

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

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

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

Certification reports DA-DC-03_N4

Drawings eaton-circuit-breaker-nzm-mccb-dimensions-022.eps

eCAD model ETN.N4-1600

Installation instructions

IL01210010Z

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

mCAD model DA-CS-nzm4_3p DA-CD-nzm4_3p

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

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

Climatic proofing

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

Equipment heat dissipation, current-dependent

284 W

Isolation

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

Rated short-time withstand current (Icw)

25 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 Bolt 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)

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 263

Rated insulation voltage (Ui)

1000 V

Rated operating frequency

50 Hz

Rated operating power at AC-23, 400 V 800 kW

Rated operating power at AC-3, 400 V

0 kW

Switch positions

I, +, 0

Lifespan, mechanical

10000 operations

Overvoltage category

Rated operational current

1600 A (415 V AC-22/23A, making and breaking capacity) 1600 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

Three-pole

Terminal capacity (copper strip)

Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched) Max. 10 segments of 32 mm x 1 mm (2x) at flat conductor terminal 10 segments of 80 mm x 1 mm (2x) at rear-side width extension 10 segments of 50 mm x 1 mm (2x) at 1-hole module plate Min. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched)

Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal

Handle color

Black

Lifespan, electrical

2000 operations at 400 V AC-3 2000 operations at 415 V AC-3 2000 operations at 690 V AC-1 3000 operations at 415 V AC-1 3000 operations at 400 V AC-1 1000 operations at 690 V AC-3

Functions

Voltage release optional Disconnectors/main switches Interlockable

Shock resistance 15 g (half-sinusoidal shock 11 ms)

Number of switches

1

Rated conditional short-circuit current (Iq) 0 kA

Rated conditional short-circuit current with back-up fuse

100 kA at 400/415 V 80 kA at 690 V N4-630...1600: 2 x 800 AgGgL

Rated conditional short-circuit current with downstream fuse

80 kA at 690 V N4-630...1600: 2 x 800 AgGgL 100 kA at 400/415 V

Rated operating voltage (Ue) at AC - max

690 V

Rated operational current for specified heat dissipation (In) 1600 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)

25 kA

Rated short-time withstand current (t = 1 s) 25 kA Switching power at 400 V 0 kW Handle type Rocker lever Number of operations per hour - max 60 Rated short-circuit making capacity Icm at 690 V, 50/60 Hz 53 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 Connection on rear. Strip terminal. Tunnel terminal

Short-circuit protective device fuses - max 1600 A gL

Terminal capacity (copper busbar)

Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate 50 mm x 10 mm (2x) at rear-side 2-hole module plate Min. 25 mm x 5 mm direct at switch rear-side connection Max. 50 mm x 10 mm (2x) direct at switch rear-side connection Max. 80 mm x 10 mm (2x) at rear-side width extension M10 at rear-side screw connection Min. 25 mm x 5 mm at rear-side 1-hole module plate Min. 60 mm x 10 mm at rear-side width extension

Terminal capacity (copper solid conductor/cable)

95 mm² - 240 mm² (6x) at rear-side width extension
50 mm² - 240 mm² (4x) at 4-hole tunnel terminal
300 mm² (4x) at rear-side width extension
70 mm² - 185 mm² (2x) at rear-side 1-hole module plate
35 mm² - 185 mm² (4x) at rear-side 2-hole module plate
185 mm² - 240 mm² (1x) at rear-side 1-hole module plate
50 mm² (4x) at rear-side 2-hole module plate

Terminal capacity (aluminum solid conductor/cable) 70 mm² - 240 mm² (6x) at rear-side width extension

240 mm² (2x) at rear-side width extension

Terminal capacity (copper stranded conductor/cable)

120 mm² - 185 mm² (1x) direct at switch rear-side connection 50 mm² - 185 mm² (4x) direct at switch rear-side connection

Terminal capacity (aluminum stranded conductor/cable) 50 mm² - 240 mm² (4x) at 4-hole tunnel terminal



Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com © 2024 Eaton. All Righ Reserved.

Eaton is a registered trademark.

Eaton.comAll other trademarks are© 2024 Eaton. All Rightsproperty of their respectiveReserved.owners.



Eaton.com/socialmedia