Eaton 266011

Catalog Number: 266011

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switchdisconnector 4p, 160A, 2



Photo is representative

General specifications

EAN

4015082660116

Product Height

Product Weight

Certifications

IEC/EN 60947

185 mm

2.42 kg

IEC

Product Name Eaton Moeller series NZM switchdisconnector Catalog Number 266011 Model Code

PN2-4-160

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: 160 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 160 A

Voltage rating 690 V - 690 V

Circuit breaker frame type PN2

Features

Version as main switch Version as emergency stop installation Version as maintenance-/service switch

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

10.12 Electromagnetic compatibility

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_PN2

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.PN2-4-160

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

Installation videos The new digital NZM Range

Introduction of the new digital circuit breaker NZM

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

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

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

19.66 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 90 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 160 A (415 V AC-22/23A, making and breaking capacity) 160 A (690 V AC-22/23A, making and breaking capacity) Degree of protection (IP), front side IP20

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

Degree of protection (terminations)

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

Number of poles

Four-pole

Terminal capacity (copper strip)

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

Min. 2 segments of 9 mm x 0.8 mm at box terminal

Handle color

Black

Lifespan, electrical

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

Functions

Interlockable Disconnectors/main switches

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) 160 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)

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

Terminal capacity (aluminum solid conductor/cable)

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

Terminal capacity (copper stranded conductor/cable)

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