Eaton 113729

Catalog Number: 113729

Eaton Moeller series NZM - Molded Case Circuit Breaker. Switch-disconnector 3p 63A +pull out

General specifications



Eaton Moeller series NZM switch-

disconnector

EAN

4015081132690

Product Height

201 mm

Product Weight

1.023 kg

Certifications

IEC/EN 60947

IEC

Catalog Number

113729

Model Code

N1-63-SVE

Product Length/Depth

90 mm

Product Width

95 mm

Compliances

RoHS conform



defaultTaxonomyAttributeLabel

Type

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: 63 A

Application

Use in unearthed supply systems at 690 V

Amperage Rating

63 A

Voltage rating

690 V - 690 V

Circuit breaker frame type

N1

Features

Version as maintenance-/service switch

Version as emergency stop installation

Version as main switch

Accessories required

NZM2-XSVS socket base

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.

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_N1

Drawings

eaton-circuit-breaker-switch-nzm-mccb-dimensions-014.eps

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

eaton-circuit-breaker-socket-nzm-mccb-3d-drawing.eps

eCAD model

DA-CE-ETN.N1-63-SVE

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

DA-CD-nzml_xsve

DA-CS-nzm1_xsve

Technical data sheets

eaton-nzm-technical-information-sheet

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

Plug-in unit

Ground mounting

Intermediate mounting

Built-in device plug-in technique

Distribution board installation

Climatic proofing

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

Equipment heat dissipation, current-dependent

4.52 W

Isolation

300 V AC (between the auxiliary contacts)

500 V AC (between auxiliary contacts and main contacts)

Rated short-time withstand current (Icw)

2 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

Frame clamp

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 30 kW Rated operating power at AC-3, 400 V 0 kW Switch positions I, +, 0Lifespan, mechanical 20000 operations Overvoltage category Ш Rated operational current 160 A (690 V AC-22/23A, making and breaking capacity) 160 A (415 V AC-22/23A, making and breaking capacity) Degree of protection (IP), front side IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle) Degree of protection (terminations) IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal) Number of poles Three-pole Terminal capacity (copper strip)

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

Handle color

Black

Lifespan, electrical

1000 operations at 415 V AC-23A

7500 operations at 690 V AC-1

1000 operations at 400 V AC-23A

10000 operations at 400 V AC-1

10000 operations at 415 V AC-1

1000 operations at 690 V AC-23A

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

63 gG/gL

100 kA at 400/415 V

Rated conditional short-circuit current with downstream fuse

10 kA at 690 V

63 gG/gL

100 kA at 400/415 V

Rated operating voltage (Ue) at AC - max

690 V

Rated operational current for specified heat dissipation (In)

63 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)

2 kA

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

2 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

2.8 kA

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

6000 V

Short-circuit protective device fuses - max

125 A gL

Terminal capacity (copper busbar)

Max. 16 mm x 5 mm direct at switch rear-side connection Min. 12 mm x 5 mm direct at switch rear-side connection

M6 at rear-side screw connection

Terminal capacity (copper solid conductor/cable)

6 mm² - 16 mm² (2x) at box terminal

10 mm^2 - 16 mm^2 (1x) at box terminal

6 mm² - 16 mm² (2x) direct at switch rear-side connection

16 mm² (1x) at tunnel terminal

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

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

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

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

Terminal capacity (copper stranded conductor/cable)

10 mm² - 70 mm² (1x) at box terminal

6 mm² - 25 mm² (2x) at box terminal

25 mm² - 95 mm² (1x) at 1-hole tunnel terminal

25 mm² (2x) direct at switch rear-side connection

25 mm² - 70 mm² (1x) direct at switch rear-side connection

Terminal capacity hint: Up to 95 mm² can be connected

depending on the cable manufacturer

Terminal capacity (aluminum stranded conductor/cable)

25 mm² - 95 mm² (1x) at 1-hole tunnel terminal



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