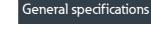
Eaton 265975

Catalog Number: 265975

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuitbreaker, 4p, 800A, N4-4-VE800



IEC/EN 60947

IEC

Product Name	Catalog Number
Eaton Moeller series NZM molded case	265975
circuit breaker electronic	Model Code NZMN4-4-VE800
EAN	Product Length/Depth
4015082659752	401 mm
Product Height	Product Width
207 mm	280 mm
Product Weight	Compliances
24.867 kg	RoHS conform
Certifications	





defaultTaxonomyAttributeLabel

Туре

Circuit breaker

Special features

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) R.m.s. value measurement and "thermal memory" Adjustable time delay setting to overcome current peaks tr at 6 x Ir also infinity (without overload releases) Adjustable delay time tsd i²t constant function: switchable Set value in neutral conductor is synchronous with set value Ir of main pole. Rated current = rated uninterrupted current: 800 A

Application Use in unearthed supply systems at 525 V

Amperage Rating 800 A

Voltage rating 690 V - 690 V

Circuit breaker frame type NZM4

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.

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

Characteristic curve eaton-circuit-breaker-nzm-mccb-characteristic-curve-049.eps eaton-circuit-breaker-nzm-mccb-characteristic-curve-048.eps

Drawings eaton-circuit-breaker-nzm-mccb-dimensions-023.eps

eCAD model

ETN.265975.edz

DA-CE-ETN.NZMN4-4-VE800

Installation instructions

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

mCAD model DA-CS-nzm4_4p

DA-CD-nzm4_4p

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

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 106 W

Utilization category

B (IEC/EN 60947-2)

Isolation

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

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

Direction of incoming supply

As required

Electrical connection type of main circuit

Screw connection

Current rating of neutral conductor

200% of phase conductor

Lifespan, mechanical

10000 operations

Overvoltage category

Ш

Degree of protection (IP), front side

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

Degree of protection (terminations)

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

Number of poles

Four-pole

Terminal capacity (copper strip)

Min. 6 segments of 16 mm x 0.8 mm at flat conductor terminal
Min. 5 segments of 25 mm x 1 mm at rear-side connection
(punched)
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 50 mm x 1 mm (2x) at 1-hole module plate
10 segments of 80 mm x 1 mm (2x) at rear-side width extension

Lifespan, electrical

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

Functions

Systems, cable, selectivity and generator protection

Shock resistance

15 g (half-sinusoidal shock 11 ms)

Position of connection for main current circuit

Front side

Rated operational current for specified heat dissipation (In) 800 A

Release system

Electronic release

Short-circuit total breaktime

< 25 ms (415 V); < 35 ms (> 415 V)

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

12 kA

Rated short-time withstand current (t = 1 s) 12 kA

Short-circuit release delayed setting - max 8000 A

Short-circuit release delayed setting - min 800 A

Short-circuit release non-delayed setting - max 12000 A

Short-circuit release non-delayed setting - min 1600 A

Terminal capacity (control cable)

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

Terminal capacity (copper busbar)

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
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
Min. 60 mm x 10 mm at rear-side width extension

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

Terminal capacity (aluminum solid conductor/cable)

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

Terminal capacity (copper stranded conductor/cable)

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

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

Handle type

Rocker lever

Short delay current setting (Isd) - max 8000 A

Short delay current setting (Isd) - min 800 A

Instantaneous current setting (li) - max 9600 A

Instantaneous current setting (li) - min 1600 A

Number of operations per hour - max 60

Overload current setting (Ir) - max 800 A

Overload current setting (Ir) - min 400 A

Overload current setting (Ir) 400 A - 800 A

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

37 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at

400/415 V, 50/60 Hz

37 kA

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

26 kA

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

19 kA

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

15 kA

Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz 105 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz $\,$

74 kA

Rated short-circuit making capacity Icm at 525 V, 50/60 Hz 53 kA $\,$

Rated short-circuit making capacity lcm at 690 V, 50/60 Hz 40 kA $\,$

Standard terminals

Screw terminal

Optional terminals

Connection on rear. Strip terminal. Tunnel terminal

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz 105 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) 1000 V AC



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