Specifications

Eaton 265982

Catalog Number: 265982

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 4p, 1250A, 800A in 4th pole, N4-4-VE1250/800



General specifications

Product Name	**Catalog Number**
Eaton Moeller series NZM molded case circuit breaker electronic	265982
	EAN
	4015082659820
Product Length/Depth	**Product Height**
401 mm	207 mm
Product Width	**Product Weight**
280 mm	25.244 kg
Compliances	**Certifications**
RoHS conform	IEC/EN 60947 IEC

Powering Business Worldwide

Product specifications

Type

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 short-circuit 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
i^2t constant function: switchable
Set value in neutral conductor is synchronous with set value Ir of main pole.
Rated current = rated uninterrupted current: 1250 A
Reduced neutral conductor protection

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

Protection unit
Motor drive optional

10.10 Temperature rise

The panel builder is responsible for the temperature rise

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

Characteristic curve

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

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

Declarations of conformity

DA-DC-03_N4

Drawings

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

eCAD model

ETN.265982.edz

Installation instructions

eaton-circuit-breaker-basic-unit-nzmn4-il01210010z.pdf

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

mCAD model

DA-CD-nzm4_4p

DA-CS-nzm4_4p

Technical data sheets

eaton-nzm-technical-information-sheet

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

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

Climatic proofing

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

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

Equipment heat dissipation, current-dependent

173.44 W

Utilization category

B (IEC/EN 60947-2)

Isolation

300 V AC (between the auxiliary contacts)

500 V AC (between auxiliary contacts and main 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)

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

Degree of protection

IP20

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

Direction of incoming supply

As required

Electrical connection type of main circuit

Screw connection

Current rating of neutral conductor

800 A

200% of phase conductor

Lifespan, mechanical

10000 operations

Overvoltage category

III

Degree of protection (IP), front side

IP40 (with insulating surround)

IP66 (with door coupling rotary handle)

Degree of protection (terminations)

IP00 (terminations, phase isolator and strip terminal)

IP10 (tunnel terminal)

Number of poles

Four-pole

Terminal capacity (copper strip)

Min. 5 segments of 25 mm x 1 mm at rear-side connection (punched)

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

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

Max. 10 segments of 50 mm x 1 mm (2x) at rear-side connection (punched)

Lifespan, electrical

3000 operations at 415 V AC-1

2000 operations at 690 V AC-1

1000 operations at 690 V AC-3

2000 operations at 415 V AC-3

2000 operations at 400 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)

1250 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)

19.2 kA

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

19.2 kA

Short-circuit release delayed setting - max

12500 A

Short-circuit release delayed setting - min

1260 A

Short-circuit release non-delayed setting - max

15000 A

Short-circuit release non-delayed setting - min

2500 A

Terminal capacity (control cable)

0.75 mm² - 1.5 mm² (2x)

0.75 mm² - 2.5 mm² (1x)

Terminal capacity (copper busbar)

Max. 50 mm x 10 mm (2x) direct at switch rear-side connection

Min. 25 mm x 5 mm direct at switch rear-side connection

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

50 mm x 10 mm (2x) at rear-side 2-hole module plate

Max. 80 mm x 10 mm (2x) at rear-side width extension

Max. 50 mm x 10 mm (2x) at rear-side 1-hole module plate

Min. 25 mm x 5 mm at rear-side 1-hole module plate

M10 at rear-side screw connection

Terminal capacity (copper solid conductor/cable)

300 mm² (4x) at rear-side width extension

35 mm² - 185 mm² (4x) at rear-side 2-hole module plate

95 mm² - 185 mm² (2x) at rear-side 2-hole module plate

95 mm² - 300 mm² (2x) at rear-side 1-hole module plate

120 mm² - 300 mm² (1x) at rear-side 1-hole module plate

95 mm² - 240 mm² (6x) at rear-side width extension

50 mm² - 240 mm² (4x) at 4-hole tunnel terminal

Terminal capacity (aluminum solid conductor/cable)

50 mm² (4x) at rear-side 2-hole module plate

70 mm² - 240 mm² (6x) at rear-side width extension

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

185 mm² - 240 mm² (1x) at rear-side 1-hole module plate

70 mm² - 185 mm² (2x) at rear-side 1-hole module plate

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

Handle type

Rocker lever

Short delay current setting (Isd) - max

12500 A

Short delay current setting (Isd) - min

1250 A

Instantaneous current setting (Ii) - max

15000 A

Instantaneous current setting (Ii) - min

2500 A

Number of operations per hour - max

60

Overload current setting (Ir) - max

1250 A

Overload current setting (Ir) - min

630 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 Icm 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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