Eaton 265710

Catalog Number: 265710

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuitbreaker, 3p, 40A, B1-M40

General specifications



Eaton Moeller series NZM molded case

circuit breaker thermo-magnetic

Catalog Number

Model Code

265710

NZMB1-M40

Product Length/Depth

EAN

4015082657109

88 mm

Product Height

145 mm

Product Width

90 mm

Product Weight

1.028 kg

Compliances RoHS conform

Certifications

IEC/EN 60947

IEC





defaultTaxonomyAttributeLabel

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)

Rated current = rated

uninterrupted current: 40 A

Terminal capacity hint: Up to

95 mm² can be connected

depending on the cable

manufacturer.

With phase-failure sensitivity

Tripping class 10 A

IEC/EN 60947-4-1, IEC/EN

60947-2

The circuit-breaker fulfills all

requirements for AC-3

switching category.

Application

Use in unearthed supply systems at 440 V

Amperage Rating

40 A

Voltage rating

440 V - 440 V

Circuit breaker frame type

NZM1

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

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-characteristic-power-defense-mccb-characteristic-curve-032.eps

eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-038.eps

eaton-circuit-breaker-nzm-mccb-characteristic-curve-058.eps

Drawings

eaton-circuit-breaker-switch-nzm-mccb-dimensions-014.eps eaton-circuit-breaker-nzm-mccb-dimensions-017.eps

eaton-general-ie-ready-dilm-contactor-standards.eps

eCAD model

DA-CE-ETN.NZMB1-M40

ETN.265710.edz

Installation instructions

eaton-cirucit-breaker-switch-disconnector-nzmb-il01203004z.pdf

Installation videos

The new digital NZM Range

Introduction of the new digital circuit breaker NZM

mCAD model

DA-CS-nzm1_3p

DA-CD-nzm1_3p

Technical data sheets

eaton-nzm-technical-information-sheet

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.

Fitted with:

Thermal protection

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

13.49 W

Utilization category

A (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

Protection against direct contact

Finger and back-of-hand proof to VDE 0106 part 100

Rated insulation voltage (Ui)

690 V

Rated operating power at AC-3, 230 V

11 kW

Rated operating power at AC-3, 400 V 18.5 kW Switch off technique Thermomagnetic 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 Other Lifespan, mechanical 20000 operations Overvoltage category Ш Rated operational current 36 A (400 V AC-3) 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 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 Lifespan, electrical 7500 operations at 415 V AC-1 7500 operations at 400 V AC-1

Functions

Motor protection

Phase failure sensitive

Shock resistance

20 g (half-sinusoidal shock 20 ms)

Rated operational current for specified heat dissipation (In)

40 A

Short-circuit release non-delayed setting - max 560 A Short-circuit release non-delayed setting - min 320 A Handle type Rocker lever Instantaneous current setting (li) - max 560 A Instantaneous current setting (li) - min 320 A Number of operations per hour - max 120 Overload current setting (Ir) - max 40 A Overload current setting (Ir) - min 32 A Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz 30 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz 18.5 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz 18.5 kA Standard terminals Box terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Release system Thermomagnetic release Short-circuit total breaktime < 10 ms 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 (aluminum stranded conductor/cable)

25 mm² - 35 mm² (1x) direct at switch rear-side connection

25 mm² - 35 mm² (2x) direct at switch rear-side connection

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

Terminal capacity (control cable)

0.75 mm² - 2.5 mm² (1x)

0.75 mm² - 1.5 mm² (2x)

Terminal capacity (copper busbar)

M6 at rear-side screw connection

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

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

Terminal capacity (copper solid conductor/cable)

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

6 mm² - 16 mm² (2x) at box terminal

Terminal capacity (copper stranded conductor/cable)

10 mm² - 70 mm² (1x) at box terminal

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

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

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

6 mm² - 25 mm² (2x) at box terminal

Rated short-circuit breaking capacity Icu (IEC/EN 60947) at 400/415 V, 50/60 Hz

18.5 kA

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

53 kA

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

53 kA

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz

63 kA

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

6000 V

Power loss

13.5 W



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