Specifications

Eaton 292345



Catalog Number: 292345

Eaton Moeller series NZM - Molded Case Circuit Breaker. Earth-fault release 30mA, AC/DC sensitive, 4p

General specifications

Product Name
Eaton Moeller series NZM release

Catalog Number
292345

EAN
4015082923457

Product Length/Depth
132 mm

Product Height
103 mm

Product Width
140 mm

Product Weight
6.06 kg

Compliances
IEC
RoHS conform

Certifications
IEC/EN 60947-2
IEC/EN 60947-2 annex B

Powering Business Worldwide

Product specifications

Used with

N2-4

Four-pole

NZM2-4

Type

Accessory Earth-fault releases

Special features

Core-balance principle with AC/DC sensitivity (in range 0 - 100 kHz) For 4 pole NZM2-4 circuit-breakers and N2-4 switch-disconnectors Internal power supply Us = 50 - 400 V

Application

In three- and single-phase systems

Voltage rating

50 - 400 V AC (independent of mains voltage)

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.

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

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

Characteristic curve

eaton-circuit-breaker-nzm-earth-fault-release-characteristic-curve.eps

Declarations of conformity

DA-DC-03_NZM2

Drawings

eaton-circuit-breaker-release-nzm-earth-fault-release-dimensions-002.eps

eaton-circuit-breaker-current-nzm-earth-fault-release-3d-drawing.eps

eaton-circuit-breaker-symbol-nzm-earth-fault-release-symbol.eps

eaton-general-nzm-mccb-symbol.eps

eCAD model

ETN.292345.edz

Installation instructions

eaton-residual-current-protection-module-nzm2-4xfi-a-il01210008z.pdf

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

mCAD model

DA-CD-nzm2_4_xfi

DA-CS-nzm2_4_xfi

Technical data sheets

eaton-nzm-technical-information-sheet

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.

Frame

NZM2

96 mm

Frequency rating

50 Hz

Mounting Method

Bottom

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Current rating - max

250 A

Power on-delay time - max

30 ms

Power on-delay time - min

30 ms

Rated control supply voltage (Us) at AC, 50 Hz - max

400 V

Rated control supply voltage (Us) at AC, 50 Hz - min

50 V

Rated control supply voltage (Us) at AC, 60 Hz - max

400 V

Rated control supply voltage (Us) at AC, 60 Hz - min

50 V

Rated control supply voltage (Us) at DC - max

0 V

Voltage rating at DC

50 V DC (dependent on mains power)

Current rating - min

15 A

Degree of protection

IP20 (operating component area)

Mounting position

Vertical and 90° in all directions

Lifespan, mechanical

2000 operations

Fault current detection range

With AC voltage: 0 - 100 kHz

With pulsed DC voltage: 50 Hz

Number of poles

Four-pole

Terminal capacity (solid/flexible conductor)

As NZM2 standard connection with ferrules

As NZM2 standard terminal without ferrules

Shock resistance

20 g (half-sinusoidal shock 20 ms)

Rated control supply voltage (Us) at DC - min

0 V

Rated fault current - max

0.03 A

Rated fault current - min

0.03 A

Rated operating voltage (Ue) - max

400 V

Sensitivity type

Sensitive to AC/DC (type B)

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