

Eaton 110280

Catalog Number: 110280

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 200A, box terminals, C, frame 2, A200-BT

General specifications



Product Name

Eaton Moeller series NZM molded case
circuit breaker thermo-magnetic

Catalog Number

110280

Model Code

NZMC2-A200-BT

EAN

4015081098286

Product Length/Depth

149 mm

Product Height

184 mm

Product Width

105 mm

Product Weight

2.416 kg

Compliances

RoHS conform

Certifications

IEC/EN 60947

IEC



Powering Business Worldwide

Technical data - electrical

Voltage rating

690 V - 690 V

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

8000 V

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

85 kA

Amperage Rating

200 A

Instantaneous current setting (Ii) - min

1280 A

Instantaneous current setting (Ii) - max

2000 A

Overload current setting (Ir) - min

160 A

Overload current setting (Ir) - max

200 A

Short delay current setting (Isd) - min

0 A

Short delay current setting (Isd) - max

0 A

Short-circuit release non-delayed setting - min

1200 A

Short-circuit release non-delayed setting - max

2000 A

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

55 kA

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

36 kA

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

22.5 kA

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

Technical data - communication

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

8000 V

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

85 kA

Amperage Rating

200 A

Instantaneous current setting (Ii) - min

1280 A

Instantaneous current setting (Ii) - max

2000 A

Overload current setting (Ir) - min

160 A

Overload current setting (Ir) - max

200 A

Short delay current setting (Isd) - min

0 A

Short delay current setting (Isd) - max

0 A

Short-circuit release non-delayed setting - min

1200 A

Short-circuit release non-delayed setting - max

2000 A

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

55 kA

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

36 kA

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

22.5 kA

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

6 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690

6 kA

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 690 V, 50/60 Hz

4 kA

Rated short-circuit making capacity I_{cm} at 240 V, 50/60 Hz

121 kA

Rated short-circuit making capacity I_{cm} at 400/415 V, 50/60 Hz

76 kA

Rated short-circuit making capacity I_{cm} at 440 V, 50/60 Hz

63 kA

Rated short-circuit making capacity I_{cm} at 525 V, 50/60 Hz

24 kA

Rated short-circuit making capacity I_{cm} at 690 V, 50/60 Hz

14 kA

Short-circuit total breaktime

< 10 ms

Electrical connection type of main circuit

Frame clamp

Isolation

500 V AC (between auxiliary contacts and main contacts)

300 V AC (between the auxiliary contacts)

Number of operations per hour - max

120

Handle type

Rocker lever

Utilization category

A (IEC/EN 60947-2)

Overvoltage category

III

Pollution degree

3

Lifespan, electrical

7500 operations at 415 V AC-1

10000 operations at 400 V AC-1

5000 operations at 690 V AC-1

Direction of incoming supply

As required

V, 50/60 Hz

4 kA

Rated short-circuit making capacity I_{cm} at 240 V, 50/60 Hz

121 kA

Rated short-circuit making capacity I_{cm} at 400/415 V, 50/60 Hz

76 kA

Rated short-circuit making capacity I_{cm} at 440 V, 50/60 Hz

63 kA

Rated short-circuit making capacity I_{cm} at 525 V, 50/60 Hz

24 kA

Rated short-circuit making capacity I_{cm} at 690 V, 50/60 Hz

14 kA

Short-circuit total breaktime

< 10 ms

Electrical connection type of main circuit

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Overvoltage category

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Pollution degree

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Lifespan, electrical

7500 operations at 415 V AC-1

10000 operations at 400 V AC-1

5000 operations at 690 V AC-1

Direction of incoming supply

As required

Technical data - mechanical

Mounting Method

Built-in device fixed built-in technique

Fixed

DIN rail (top hat rail) mounting optional

Degree of protection

IP20

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

Degree of protection (IP), front side

IP66 (with door coupling rotary handle)

IP40 (with insulating surround)

Degree of protection (terminations)

IP10 (tunnel terminal)

IP00 (terminations, phase isolator and strip terminal)

Protection against direct contact

Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110

Shock resistance

20 g (half-sinusoidal shock 20 ms)

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Position of connection for main current circuit

Front side

Climatic proofing

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

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

Lifespan, mechanical

20000 operations

Resources

Brochures

[eaton-digital-nzm-brochure-br013003en-en-us.pdf](#)

[eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf](#)

Catalogues

[eaton-digital-nzm-catalog-ca013003en-en-us.pdf](#)

Characteristic curve

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.eps](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-031.eps](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-035.eps](#)

Drawings

[eaton-circuit-breaker-switch-nzm-mccb-dimensions-017.eps](#)

[eaton-circuit-breaker-nzm-mccb-dimensions-019.eps](#)

Installation videos

[Introduction of the new digital circuit breaker NZM](#)

[The new digital NZM Range](#)

mCAD model

[DA-CS-nzm2_3p](#)

[DA-CD-nzm2_3p](#)

Technical data sheets

[eaton-nzm-technical-information-sheet](#)



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