

Eaton 280989

Catalog Number: 280989

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 32A, B, frame1, A32

General specifications



Product Name

Eaton Moeller series NZM molded case
circuit breaker thermo-magnetic

Catalog Number

280989

Model Code

NZMB1-A32

EAN

4015082809898

Product Length/Depth

88 mm

Product Height

145 mm

Product Width

90 mm

Product Weight

1.062 kg

Compliances

RoHS conform

Certifications

IEC

IEC/EN 60947

Technical data - electrical

Voltage rating

440 V - 440 V

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

6000 V

Amperage Rating

32 A

Instantaneous current setting (Ii) - min

350 A

Instantaneous current setting (Ii) - max

350 A

Overload current setting (Ir) - min

25 A

Overload current setting (Ir) - max

32 A

Short delay current setting (I_{sd}) - min

0 A

Short delay current setting (I_{sd}) - max

0 A

Short-circuit release non-delayed setting - min

350 A

Short-circuit release non-delayed setting - max

350 A

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 230 V, 50/60 Hz

30 kA

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

25 kA

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 440 V, 50/60 Hz

18.5 kA

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

63 kA

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

53 kA

Technical data - communication

Rated impulse withstand voltage (Uimp) at auxiliary contacts

6000 V

Rated impulse withstand voltage (Uimp) at main contacts

6000 V

Amperage Rating

32 A

Instantaneous current setting (Ii) - min

350 A

Instantaneous current setting (Ii) - max

350 A

Overload current setting (Ir) - min

25 A

Overload current setting (Ir) - max

32 A

Short delay current setting (I_{sd}) - min

0 A

Short delay current setting (I_{sd}) - max

0 A

Short-circuit release non-delayed setting - min

350 A

Short-circuit release non-delayed setting - max

350 A

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 230 V, 50/60 Hz

30 kA

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

25 kA

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 440 V, 50/60 Hz

18.5 kA

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

63 kA

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

53 kA

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

53 kA

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

53 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 400 V AC-1

7500 operations at 415 V AC-1

Direction of incoming supply

As required

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 400 V AC-1

7500 operations at 415 V AC-1

Direction of incoming supply

As required

Technical data - mechanical

Mounting Method

Fixed

Built-in device fixed built-in technique

DIN rail (top hat rail) mounting optional

Degree of protection

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

IP20

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)

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, constant, to IEC 60068-2-78

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

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-characteristic-power-defense-mccb-characteristic-curve-038.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-051.eps](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-032.eps](#)

Drawings

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

[eaton-circuit-breaker-switch-nzm-mccb-dimensions-014.eps](#)

[eaton-circuit-breaker-switch-nzm-mccb-3-d-drawing-006.eps](#)

eCAD model

[ETN.NZMB1-A32](#)

Installation instructions

[eaton-circuit-breakers-nzm-pn1-nzmbc-nzmbn-circuit-breaker-switch-disconnector-instruction-leaflet-il01203004z.pdf](#)

Installation videos

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

[The new digital NZM Range](#)

mCAD model

[DA-CS-nzm1_3p](#)

[DA-CD-nzm1_3p](#)

Technical data sheets

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



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