

Eaton 110281

Catalog Number: 110281

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 250A, box terminals, C, frame 2, A250-BT



General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker thermo-magnetic	110281
	Model Code
	NZMC2-A250-BT
EAN	Product Length/Depth
4015081098293	149 mm
Product Height	Product Width
184 mm	105 mm
Product Weight	Compliances
2.42 kg	RoHS conform
Certifications	
IEC	
IEC/EN 60947	

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

250 A

Instantaneous current setting (Ii) - min

1500 A

Instantaneous current setting (Ii) - max

2500 A

Overload current setting (Ir) - min

200 A

Overload current setting (Ir) - max

250 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

1500 A

Short-circuit release non-delayed setting - max

2500 A

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

55 kA

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

36 kA

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

22.5 kA

Rated short-circuit breaking capacity I_{cs} (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

250 A

Instantaneous current setting (Ii) - min

1500 A

Instantaneous current setting (Ii) - max

2500 A

Overload current setting (Ir) - min

200 A

Overload current setting (Ir) - max

250 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

1500 A

Short-circuit release non-delayed setting - max

2500 A

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

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36 kA

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

22.5 kA

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 525 V, 50/60 Hz

6 kA

Rated short-circuit breaking capacity I_{cs} (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

300 V AC (between the auxiliary contacts)

500 V AC (between auxiliary contacts and main 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

5000 operations at 690 V AC-1

7500 operations at 415 V AC-1

10000 operations at 400 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

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Overvoltage category

III

Pollution degree

3

Lifespan, electrical

5000 operations at 690 V AC-1

7500 operations at 415 V AC-1

10000 operations at 400 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

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

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, 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-characteristic-power-defense-mccb-characteristic-curve-031.eps](#)

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-050.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

[The new digital NZM Range](#)

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

mCAD model

[DA-CS-nzm2_3p](#)

[DA-CD-nzm2_3p](#)

Technical data sheets

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



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30 Pembroke Road
Dublin 4, Ireland
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