

Eaton 271396

Catalog Number: 271396

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 100A, C, frame1, A100



General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker thermo-magnetic	271396
	Model Code
	NZMC1-A100
EAN	Product Length/Depth
4015082713966	88 mm
Product Height	Product Width
145 mm	90 mm
Product Weight	Compliances
1.066 kg	RoHS conform
Certifications	
IEC/EN 60947	
IEC	

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

6000 V

Amperage Rating

100 A

Instantaneous current setting (Ii) - min

600 A

Instantaneous current setting (Ii) - max

1000 A

Overload current setting (Ir) - min

80 A

Overload current setting (Ir) - max

100 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

600 A

Short-circuit release non-delayed setting - max

1000 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

6 kA

Rated short-circuit breaking capacity I_{cs} (IEC/EN 60947) at 690

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

100 A

Instantaneous current setting (Ii) - min

600 A

Instantaneous current setting (Ii) - max

1000 A

Overload current setting (Ir) - min

80 A

Overload current setting (Ir) - max

100 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

600 A

Short-circuit release non-delayed setting - max

1000 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

6 kA

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

6 kA

V, 50/60 Hz

6 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

10000 operations at 400 V AC-1

10000 operations at 415 V AC-1

5000 operations at 690 V AC-1

Direction of incoming supply

As required

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

10000 operations at 400 V AC-1

10000 operations at 415 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)

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

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

Catalogues

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

Characteristic curve

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

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-039.eps](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-033.eps](#)

Drawings

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

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

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

eCAD model

[ETN.NZMC1-A100](#)

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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