

Eaton 103033

Catalog Number: 103033

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 33A, N1-S33-CNA

General specifications

Product Name	Catalog Number
Eaton Moeller series NZM - Molded Case Circuit Breaker	103033
	Model Code
	NZMN1-S33-CNA
EAN	Product Length/Depth
4015081028726	88 mm
Product Height	Product Width
165.5 mm	90 mm
Product Weight	Compliances
1.046 kg	RoHS conform
Certifications	Model Code
UL/CSA	NZMN1-S33-CNA
CSA (Class No. 1432-01)	
UL 489	
CSA (File No. 22086)	
UL (Category Control Number DKPU2)	
Specially designed for North America	
CSA-C22.2 No. 5-09	
CSA certified	
UL (File No. E31593)	
UL listed	

Technical data - electrical

Voltage rating

690 V - 690 V

Rated operating voltage U_e (UL) - max

480 V / 277 V

Rated insulation voltage (U_i)

690 V

Rated impulse withstand voltage (U_{imp}) at auxiliary contacts

6000 V

Rated impulse withstand voltage (U_{imp}) at main contacts

6000 V

Amperage Rating

33 A

Instantaneous current setting (I_i) - min

264 A

Instantaneous current setting (I_i) - max

462 A

Overload current setting (I_r) - min

0 A

Overload current setting (I_r) - max

0 A

Short-circuit release non-delayed setting - min

264 A

Short-circuit release non-delayed setting - max

462 A

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

50 kA

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

50 kA

Rated operating power at AC-3, 230 V

7.5 kW

Rated operating power at AC-3, 400 V

15 kW

Short-circuit total breaktime

< 10 ms

Technical data - communication

Rated impulse withstand voltage (U_{imp}) at auxiliary contacts

6000 V

Rated impulse withstand voltage (U_{imp}) at main contacts

6000 V

Amperage Rating

33 A

Instantaneous current setting (I_i) - min

264 A

Instantaneous current setting (I_i) - max

462 A

Overload current setting (I_r) - min

0 A

Overload current setting (I_r) - max

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462 A

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

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50 kA

Rated operating power at AC-3, 230 V

7.5 kW

Rated operating power at AC-3, 400 V

15 kW

Short-circuit total breaktime

< 10 ms

Electrical connection type of main circuit

Other

Isolation

500 V AC (between auxiliary contacts and main contacts)

300 V AC (between the auxiliary contacts)

Number of operations per hour - max

Electrical connection type of main circuit

Other

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

Overvoltage category

III

Pollution degree

3

Lifespan, electrical

7500 operations at 400 V AC-3

7500 operations at 415 V AC-3

5000 operations at 690 V AC-3

Direction of incoming supply

As required

120

Handle type

Rocker lever

Overvoltage category

III

Pollution degree

3

Lifespan, electrical

7500 operations at 400 V AC-3

7500 operations at 415 V AC-3

5000 operations at 690 V AC-3

Direction of incoming supply

As required

Technical data - mechanical

Mounting Method

Built-in device fixed built-in technique

Fixed

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 VDE 0106 part 100

Shock resistance

20 g (half-sinusoidal shock 20 ms)

Switch off technique

Magnetic

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](#)

Certification reports

[DA-DC-03_N1](#)

Characteristic curve

[eaton-circuit-breaker-nzm-mccb-characteristic-curve-058.eps](#)

[eaton-circuit-breaker-let-through-current-nzm-mccb-characteristic-curve-002.eps](#)

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

[1230DIA-13](#)

[1230DIA-3](#)

[123U184](#)

Drawings

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

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

[123X039](#)

[123X506](#)

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

[123I243](#)

Installation instructions

[IL01203004Z](#)

mCAD model

[DA-CS-nzm1_3p](#)

[DA-CD-nzm1_3p](#)

Technical data sheets

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



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