

Eaton 259123

Catalog Number: 259123

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM2, VE, 3 pole, Icu 400/415 V 50 Hz(Icu): 50 kA, 160 A, Fixed, Screw connection, IEC

General specifications

Product Name	Catalog Number
Eaton Moeller series NZM molded case circuit breaker electronic	259123
	EAN
	4015082591236
Product Length/Depth	Product Height
149 mm	184 mm
Product Width	Product Weight
105 mm	2.452 kg
Compliances	Certifications
RoHS conform	IEC
	IEC/EN 60947
Model Code	
NZMN2-VE160	

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 = 0.3 s)

1.9 kA

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

1.9 kA

Amperage Rating

160 A

Instantaneous current setting (Ii) - min

1920 A

Instantaneous current setting (Ii) - max

1920 A

Overload current setting (Ir) - min

80 A

Overload current setting (Ir) - max

160 A

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

160 A

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

1600 A

Short-circuit release delayed setting - min

160 A

Short-circuit release delayed setting - max

1600 A

Short-circuit release non-delayed setting - min

1920 A

Short-circuit release non-delayed setting - max

1920 A

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

85 kA

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 = 0.3 s)

1.9 kA

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

1.9 kA

Amperage Rating

160 A

Instantaneous current setting (Ii) - min

1920 A

Instantaneous current setting (Ii) - max

1920 A

Overload current setting (Ir) - min

80 A

Overload current setting (Ir) - max

160 A

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

160 A

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

1600 A

Short-circuit release delayed setting - min

160 A

Short-circuit release delayed setting - max

1600 A

Short-circuit release non-delayed setting - min

1920 A

Short-circuit release non-delayed setting - max

1920 A

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

85 kA

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

50 kA

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

50 kA

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

35 kA

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

25 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz

5 kA

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz

187 kA

Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz

105 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz

74 kA

Rated short-circuit making capacity Icm at 525 V, 50/60 Hz

53 kA

Rated short-circuit making capacity Icm at 690 V, 50/60 Hz

40 kA

Short-circuit total breaktime

< 10 ms

Electrical connection type of main circuit

Screw connection

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

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

35 kA

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

25 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz

5 kA

Rated short-circuit making capacity Icm at 240 V, 50/60 Hz

187 kA

Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz

105 kA

Rated short-circuit making capacity Icm at 440 V, 50/60 Hz

74 kA

Rated short-circuit making capacity Icm at 525 V, 50/60 Hz

53 kA

Rated short-circuit making capacity Icm at 690 V, 50/60 Hz

40 kA

Short-circuit total breaktime

< 10 ms

Electrical connection type of main circuit

Screw connection

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

10000 operations at 415 V AC-1

6500 operations at 400 V AC-3

Lifespan, electrical

10000 operations at 415 V AC-1

6500 operations at 400 V AC-3

6500 operations at 415 V AC-3

10000 operations at 400 V AC-1

5000 operations at 690 V AC-3

7500 operations at 690 V AC-1

Direction of incoming supply

As required

6500 operations at 415 V AC-3

10000 operations at 400 V AC-1

5000 operations at 690 V AC-3

7500 operations at 690 V AC-1

Direction of incoming supply

As required

Technical data - mechanical

Mounting Method

Built-in device fixed built-in technique

DIN rail (top hat rail) mounting optional

Fixed

Degree of protection

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

IP20

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

3D models

[DA-CD-nzm2_3p](#)

[DA-CS-nzm2_3p](#)

Brochures

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

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

Catalogs

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

Drawings

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

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

[123X341](#)

[123X312](#)

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

[123I247](#)

User guides

[i101206006z2015_11.pdf](#)

Technical data sheets

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



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