Product specifications

Eaton 191628

Catalog Number: 191628

Eaton Moeller series NZM - Molded Case Circuit Breaker. NZM2 PXR20 circuit breaker, 100A, 3p, screw terminal, N, 2

General specifications

Product Name
Eaton Moeller series NZM molded case circuit breaker electronic

Catalog Number
191628

EAN
4015081921409

Product Length/Depth
190 mm

Product Height
160 mm

Product Width
115 mm

Product Weight
2.3 kg

Compliances
RoHS conform

Certifications
IEC
IEC/EN 60947

Model Code
NZMN2-VX100

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

100 A

Instantaneous current setting (Ii) - min

2 A

Instantaneous current setting (Ii) - max

18 A

Overload current setting (Ir) - min

40 A

Overload current setting (Ir) - max

100 A

Short delay current setting (Isd) - min

2 A

Short delay current setting (Isd) - max

10 A

Short-circuit release delayed setting - min

80 A

Short-circuit release delayed setting - max

1000 A

Short-circuit release non-delayed setting - min

200 A

Short-circuit release non-delayed setting - max

1800 A

Rated short-circuit breaking capacity Ics (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

100 A

Instantaneous current setting (Ii) - min

2 A

Instantaneous current setting (Ii) - max

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Overload current setting (Ir) - min

40 A

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100 A

Short delay current setting (Isd) - min

2 A

Short delay current setting (Isd) - max

10 A

Short-circuit release delayed setting - min

80 A

Short-circuit release delayed setting - max

1000 A

Short-circuit release non-delayed setting - min

200 A

Short-circuit release non-delayed setting - max

1800 A

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz

85 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 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

110 kA

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

77 kA

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

55 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

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

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

110 kA

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

77 kA

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

55 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

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

Lifespan, electrical

10000 operations at 400 V AC-1

10000 operations at 415 V AC-1

7500 operations at 690 V AC-1

Direction of incoming supply

As required

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

Fixed

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)

IP10 (tunnel terminal)

IP00 (terminations, phase isolator and strip 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-CS-nzm2_3p

DA-CD-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

User guides

IL012099ZU

Technical data sheets

eaton-nzm-technical-information-sheet

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