Product specifications

# Eaton 259115

## Catalog Number: 259115

Eaton Moeller series NZM - Molded Case Circuit Breaker. Circuit-breaker, 3p, 630A, N3-AE630

### General specifications

**Product Name**
Eaton Moeller series NZM molded case circuit breaker electronic

**Catalog Number**
259115

**EAN**
4015082591151

**Product Length/Depth**
166 mm

**Product Height**
275 mm

**Product Width**
140 mm

**Product Weight**
7.137 kg

**Compliances**
RoHS conform

**Certifications**
IEC/EN 60947
IEC

**Model Code**
NZMN3-AE630

## 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)

3.3 kA

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

3.3 kA

Amperage Rating

630 A

Instantaneous current setting (Ii) - min

1260 A

Instantaneous current setting (Ii) - max

5040 A

Overload current setting (Ir) - min

315 A

Overload current setting (Ir) - max

630 A

Short delay current setting (Isd) - min

0 A

Short delay current setting (Isd) - max

0 A

Short-circuit release non-delayed setting - min

1260 A

Short-circuit release non-delayed setting - max

5040 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 440 V, 50/60 Hz

35 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)

3.3 kA

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

3.3 kA

Amperage Rating

630 A

Instantaneous current setting (Ii) - min

1260 A

Instantaneous current setting (Ii) - max

5040 A

Overload current setting (Ir) - min

315 A

Overload current setting (Ir) - max

630 A

Short delay current setting (Isd) - min

0 A

Short delay current setting (Isd) - max

0 A

Short-circuit release non-delayed setting - min

1260 A

Short-circuit release non-delayed setting - max

5040 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 440 V, 50/60 Hz

35 kA

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

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

13 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

60

Handle type

Rocker lever

Utilization category

A (IEC/EN 60947-2)

Overvoltage category

III

Pollution degree

3

Lifespan, electrical

2000 operations at 400 V AC-3

2000 operations at 690 V AC-3

3000 operations at 690 V AC-1

5000 operations at 400 V AC-1

5000 operations at 415 V AC-1

13 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

60

Handle type

Rocker lever

Utilization category

A (IEC/EN 60947-2)

Overvoltage category

III

Pollution degree

3

Lifespan, electrical

2000 operations at 400 V AC-3

2000 operations at 690 V AC-3

3000 operations at 690 V AC-1

5000 operations at 400 V AC-1

5000 operations at 415 V AC-1

2000 operations at 415 V AC-3

Direction of incoming supply

2000 operations at 415 V AC-3

### Direction of incoming supply

As required

As required

## Technical data - mechanical

### Mounting Method

Built-in device fixed built-in technique

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)

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, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

### Lifespan, mechanical

15000 operations

## Resources

### 3D models

DA-CS-nzm3_3p

DA-CD-nzm3_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-020.eps

eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps

123X553

123X330

### User guides

IL01208009Z

### Technical data sheets

eaton-nzm-technical-information-sheet

---

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com



Eaton.com/socialmedia