

# Eaton EMBH106R30C

Catalog Number: EMBH106R30C

Eaton Moeller series xPole - eRB6/M RCBO - residual-current circuit breaker with overcurrent protection. Electronic RCD/MCB, 6A, 30mA, MCB char. curve: B, 1p, RCCB trip char.: A, UK



## General specifications

### Product Name

Eaton Moeller series xPole - eRB6/M  
RCBO - residual-current circuit breaker  
with overcurrent protection

### Catalog Number

EMBH106R30C

### Model Code

eRBM-6/1/B/003-A

### EAN

4015081488223

### Product Length/Depth

216 mm

### Product Height

72 mm

### Product Width

17.5 mm

### Product Weight

0.211 kg

### Compliances

CE Marked  
RoHS conform

### Certifications

CE

## Product specifications

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### Current limiting class

3

### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Rated short-circuit breaking capacity (EN 60947-2)

0 kA

### Frequency rating

50/60 Hz

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Number of poles (total)

1

### Fault current rating

0.03 A

### Ambient operating temperature - max

40 °C

### Built-in depth

69.5 mm

### Connectable conductor cross section (solid-core) - min

1 mm<sup>2</sup>

### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

### Number of poles

Single-pole

### Ambient operating temperature - min

## Resources

### Catalogues

[eaton-xpole-erb6-rcbo-catalog-ca019049en-en-us.pdf](#)

[eaton-xpole-erb6-au-rcbo-catalog-ca019052en-en-us.pdf](#)

[eaton-xpole-erb6/m-dimensions.jpg](#)

### Certification reports

[DA-DC-03\\_eRB](#)

[03\\_eRB\\_220620](#)

### Installation instructions

[eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf](#)

[IL019095ZU](#)

[MA120500735.pdf](#)

### Wiring diagrams

[eaton-xpole-erb6/m-wiring-diagram.jpg](#)

-25 °C

#### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Application

Switchgear for residential and commercial applications

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

#### Voltage type

AC

#### Number of poles (protected)

1

#### Leakage current type

A

#### Rated short-circuit breaking capacity (EN 61009-1)

10 kA

#### Operating ambient temperature - min

-25 °C

#### Release characteristic

B

#### Width in number of modular spacings

1

#### Power loss

2.3 W

#### 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

#### 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

#### Rated short-circuit breaking capacity (EN 61009)

10 kA

#### Operating ambient temperature - max

40 °C

#### Voltage rating

240 V - 240 V

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

#### Degree of protection

IP20

#### Overvoltage category

III

#### Pollution degree

2

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### Connectable conductor cross section (multi-wired) - min

1 mm<sup>2</sup>

#### Rated impulse withstand voltage (Uimp)

4 kV

#### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Basic function

Combined RCD/MCB devices

#### Rated current

6 A

#### Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

#### Type

RCBO

#### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### Surge current capacity

0.25 kA

#### 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### Rated short-circuit breaking capacity (IEC 60947-2)

0 kA

#### Disconnection characteristic

Undelayed

#### Product application

Switchgear for residential and commercial applications

#### Rated operational voltage (Ue) - max

240 V

#### Rated insulation voltage (Ui)

500 V



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