# Eaton 168267

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# Catalog Number: 168267

Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 6A, 30mA, MCB trip type C, 1-phase+N, RCCB trip type: A

# General specifications



Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker

with overcurrent protection

EAN

4015081648467

**Product Height** 

75 mm

**Product Weight** 

0.25 kg

Certifications

CE

Catalog Number

168267

Model Code

FRBDM-C6/1N/003-G/A

Product Length/Depth

86 mm

**Product Width** 

37 mm

Compliances

CE Marked

RoHS conform



## defaultTaxonomyAttributeLabel

Type

**RCBO** 

Application

Switchgear for industrial and advanced commercial applications

Amperage Rating

6 A

Voltage rating

240 V - 240 V

Surge current capacity

3 kA

Voltage type

AC

Width in number of modular spacings

2

#### **Features**

Anti-nuisance tripping version Concurrently switching N-neutral

# 10.10 Temperature rise

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

#### 10.11 Short-circuit rating

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

#### 10.12 Electromagnetic compatibility

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

#### 10.13 Mechanical function

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

#### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

# 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

#### Resources

#### **Brochures**

eaton-xeffect-digital-circuit-breaker-brochure-br003004en-en-us.pdf eaton-xeffect-digital-switchgear-brochure-br003004en-en-us.pdf

#### Catalogs

eaton-xeffect-frbdm-rcbo-catalog-ca003013en-en-us.pdf

Certification reports

DA-DC-03 FRBdM

Characteristic curve

eaton-xeffect-frbdm-characteristic-curve.jpg

#### **Drawings**

Dimension xEffect FRBdM 1N/2-pole

eaton-xeffect-frbdm-dimensions.jpg

eaton-xeffect-frbdm-3d-drawing-002.jpg

eaton-xeffect-frbdm-3d-drawing-005.jpg

#### Installation instructions

MA120500739.pdf

MA120500739\_2019\_04.pdf

#### mCAD model

eaton-frbdm\_2p\_digi\_rcbo-3d-model.stp eaton-frbdm\_2p\_digi\_rcbo-drawing.dwg

## Specifications and datasheets

Eaton Specification Sheet - 168267

#### Wiring diagrams

Contact Sequence xEffect FRBdM 1N

eaton-xeffect-frbdm-wiring-diagram.jpg

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

Meets the product standard's requirements.

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

Meets the product standard's requirements.

#### 10.2.5 Lifting

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

#### 10.2.6 Mechanical impact

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

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### 10.3 Degree of protection of assemblies

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

#### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

#### 10.5 Protection against electric shock

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

#### 10.6 Incorporation of switching devices and components

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

### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

## 10.8 Connections for external conductors

Is the panel builder's responsibility.

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

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

Is the panel builder's responsibility.

#### Operating ambient temperature - max

40 °C

#### Operating ambient temperature - min

-25 °C

| Product range<br>FRBdM  |
|---|
| Rated current 6 A   |
| Rated fault currents of product range<br>10, 30, 100 MilliAmpere  |
| Rated operational current for specified heat dissipation (In) 6 A |
| Rated switching capacity (IEC/EN 61009) 10 kA                     |
| Static heat dissipation, non-current-dependent 0 W                |
| Tripping characteristic C   |
| Built-in depth 70 mm  |
| Current limiting class 3  |
| Rated short-circuit breaking capacity (EN 60947-2) 0 kA           |
| Ambient operating temperature - max 40 °C                         |
| Ambient operating temperature - min -25 °C                        |
| Fault current rating 0.03 A                                       |
| Heat dissipation capacity 0 W                                     |
| Heat dissipation per pole, current-dependent 0 W                  |
| Number of poles (protected) 1                                     |
| Number of poles (total) 2   |
| Rated operational voltage (Ue) - max 240 V                        |
| Rated short-circuit breaking capacity (IEC 60947-2)               |

1 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Rated short-circuit breaking capacity (EN 61009)

10 kA

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

10 kA

Number of poles

Single-pole + N

Disconnection characteristic

Short-time delayed

Power loss

2.5 W



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