Eaton 168267

LOAD 1 LOAD N

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



Product specifications

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

Catalogs

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

Characteristic curve

eaton-xeffect-frbdm-characteristic-curve.jpg

Declarations of conformity

DA-DC-03_FRBdM

Drawings

eaton-xeffect-frbdm-dimensions.jpg

Dimension xEffect FRBdM 1N/2-pole

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-drawing.dwg eaton-frbdm_2p_digi_rcbo-3d-model.stp

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 FRBdM
Rated current 6 A
Rated fault currents of product range 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 mm²

Connectable conductor cross section (multi-wired) - max

25 mm²

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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