

Eaton FRBM6-C16{}3N{}003-A

Catalog Number: FRBM6-C16/3N/003-A

Eaton RCD/MCB comb. switch, 16 A, 30 mA, miniature circuit-br. type C trip characteristic, 3-phase+N, residual current circuit-br. trip characteristic: A. FRBM6-C16/3N/003-A

General specifications

| Product Name | Catalog Number |
|---|--------------------------------------|
| Eaton Moeller series xEffect - FRBm6/M | FRBM6-C16/3N/003-A |
| RCBO - residual-current circuit breaker with overcurrent protection | EAN 4015081671205 |
| Product Length/Depth | Product Height |
| 80 mm | 75.5 mm |
| Product Width | Product Weight |
| 70 mm | 0.445 kg |
| Compliances | Certifications |
| CE Marked | CE |

Type

RCBO

Application

Switchgear for industrial and advanced commercial applications

Voltage rating

415 V - 415 V

Surge current capacity

0.25 kA

Voltage type

AC

Width in number of modular spacings

4

Features

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.

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

Meets the product standard's requirements.

Brochures
[xEffect_FR_RCCB_FAZ%20MCB.pdf](#)
Catalogs
[eaton-xeffect-frbm6-rcbo-catalog-ca003015en-en-us.pdf](#)
Installation videos
[xeffect-FRBM6/M-installation-video](#)
Specifications and datasheets
[Eaton Specification Sheet - FRBM6-C16/3N/003-A](#)

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

FRBm6

Rated current

16 A

Rated fault currents of product range

30, 100, 300 MilliAmpere

Rated operational current for specified heat dissipation (In)

16 A

Rated switching capacity (IEC/EN 61009)

6 kA

Static heat dissipation, non-current-dependent

0 W

Tripping characteristic

C

Built-in depth

75.5 mm

Current limiting class

3

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

6 kA

Fault current rating

0.03 A

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Number of poles (protected)

4

Number of poles (total)

4

Rated switching capacity

6 kA

Basic function

Combined RCD/MCB devices

Equipment heat dissipation, current-dependent

10.9 W

Rated impulse withstand voltage (Uimp)

4 kV

Degree of protection

IP20

Operating ambient temperature hint

Keep in mind the derating at temperatures higher than 40 °C

Tripping

Non-delayed

Overvoltage category

III

Pollution degree

2

Impulse withstand current

Partly surge-proof, 250 A

Leakage current type

A

Release characteristic

C

Sensitivity type

Pulse-current sensitive

Frequency rating

50 Hz

Rated insulation voltage (Ui)

500 V

Connectable conductor cross section (solid-core) - min

1 mm²

Connectable conductor cross section (solid-core) - max

25 mm²

Connectable conductor cross section (multi-wired) - min

1 mm²

Connectable conductor cross section (multi-wired) - max

25 mm²

Rated short-circuit breaking capacity (EN 61009)

6 kA

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

6 kA

Number of poles

Three-pole + N

Disconnection characteristic

Undelayed



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