Specifications

# Eaton 193485

## Catalog Number: 193485

Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection. RCBO D 13A 1+N 30mA sensitivity F, G




### General specifications

| | |
|---|---|
| **Product Name** | **Catalog Number** |
| Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection | 193485 |
| | **EAN** |
| | 9010238024588 |
| **Product Length/Depth** | **Product Height** |
| 80 mm | 75 mm |
| **Product Width** | **Product Weight** |
| 35 mm | 0.198 kg |
| **Compliances** | **Certifications** |
| RoHS conform | CE<br>EN45545-2<br>IEC 61373 |

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## Product specifications

### Type
RCBO

### Application
Switchgear for industrial and advanced commercial applications

### Voltage rating
240 V - 240 V

### Surge current capacity
3 kA

### Voltage type
AC

### Width in number of modular spacings
2

### Features
Concurrently switching N-neutral
Anti-nuisance tripping version

### Operating ambient temperature - max
40 °C

### Operating ambient temperature - min
-25 °C

### Rated current
13 A

### Rated operational current for specified heat dissipation (In)
13 A

### Rated switching capacity (IEC/EN 60947-2)
15 kA

### Built-in depth
75.5 mm

### Current limiting class
3

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

### Ambient operating temperature - max
40 °C

### Ambient operating temperature - min
-25 °C

## Resources

### Brochures
xEffect_FR_RCCB_FAZ%20MCB.pdf

### Catalogs
eaton-xeffect-frbm6-rcbo-catalog-ca003015en-en-us.pdf

### Declarations of conformity
03_FRBM-1N_191119

DA-DC-03_FRBM-1N

03_FRBM-F-1N_231017

DA-DC-03_FRBM-F-1N

### Drawings
eaton-xeffect-frbm6m-wiring-diagram.jpg

eaton-xeffect-frbm6m-3d-drawing-007.jpg

eaton-xeffect-frbm6m-dimensions.jpg

eaton-xeffect-frbm6m-characteristic-curve.jpg

### eCAD model
ETN.FRBmM-D13_1N_003-F.edz

### Installation videos
xeffect-FRBm6/M-installation-video

### mCAD model
eaton-170541-3d-model.stp

eaton-170541-drawing.dwg

Fault current rating

0.03 A

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)

10 kA

Basic function

Combined RCD/MCB devices

Rated impulse withstand voltage (Uimp)

4 kV

Degree of protection

IP20

Overvoltage category

III

Pollution degree

2

Leakage current type

A

Release characteristic

D

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)

10 kA

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

10 kA

Number of poles

Single-pole + N

Disconnection characteristic

Undelayed

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