Specifications

Eaton 193505

Catalog Number: 193505

Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection. RCBO B 40A 1+N 300mA sensitivity F



General specifications

Product Name	**Catalog Number**
Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection	193505
	EAN
	9010238025882
Product Length/Depth	**Product Height**
80 mm	75 mm
Product Width	**Product Weight**
35 mm	0.21 kg
Compliances	**Certifications**
CE Marked RoHS conform	CE EN45545-2 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
40 A

Rated operational current for specified heat dissipation (In)
40 A

Rated switching capacity (IEC/EN 60947-2)
10 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

03_FRBM-F-1N_231017

DA-DC-03_FRBM-F-1N

DA-DC-03_FRBM-1N

Drawings
eaton-xeffect-frbm6m-3d-drawing-005.jpg

eaton-xeffect-frbm6m-wiring-diagram.jpg

eaton-xeffect-frbm6m-dimensions.jpg

eaton-xeffect-frbm6m-characteristic-curve.jpg

eCAD model
ETN.FRBmM-B40_1N_03-F.edz

Installation videos
xeffect-FRBm6/M-installation-video

mCAD model
eaton-170541-drawing.dwg

eaton-170541-3d-model.stp

Fault current rating

0.3 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

B

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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