

Eaton 171001

Catalog Number: 171001

Eaton Moeller series xEffect - FRBm4 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 25A, 30mA, MCB trip type C, 3-phase+N, RCCB trip type: A



General specifications

Product Name	Catalog Number
Eaton Moeller series xEffect - FRBm4 RCBO - residual-current circuit breaker with overcurrent protection	171001
Model Code	
	FRBM4-C25/3N/003-A
EAN	Product Length/Depth
4015081671229	80 mm
Product Height	Product Width
75.5 mm	70 mm
Product Weight	Compliances
0.445 kg	CE Marked RoHS conform
Certifications	
CE EN45545-2 IEC 61373	

Product specifications

Type

RCBO

Application

Switchgear for industrial and advanced commercial applications

Amperage Rating

25 A

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

Operating ambient temperature - max

40 °C

Operating ambient temperature - min

-25 °C

Product range

FRBm4

Rated current

25 A

Rated fault currents of product range

30, 100, 300 MilliAmpere

Rated operational current for specified heat dissipation (In)

25 A

Rated switching capacity (IEC/EN 61009)

4.5 kA

Static heat dissipation, non-current-dependent

0 W

Tripping characteristic

C

Built-in depth

Resources

Brochures

[eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf](#)

Catalogs

[eaton-xeffect-frbm4-rcbo-catalog-ca003016en-en-us.pdf](#)

Declarations of conformity

[DA-DC-03_FRBm-3N](#)

[03_FRBM-3_191119](#)

[DA-DC-03_FRBM-3](#)

Drawings

[Dimension xEffect FRBm4/FRBm6 3N](#)

[eaton-xeffect-frbm6m-wiring-diagram-002.jpg](#)

[eaton-xeffect-frbm6m-characteristic-curve-002.jpg](#)

[eaton-xeffect-frbm6m-dimensions-004.jpg](#)

eCAD model

[ETN.FRBM4-C25_3N_003-A.edz](#)

Installation instructions

[IL019140ZU](#)

mCAD model

[eaton-frbm_3n_rcbo-drawing.dwg](#)

[eaton-frbm_3n_rcbo-3d-model.stp](#)

Specifications and datasheets

[Eaton Specification Sheet - 171001](#)

Wiring diagrams

[Contact Sequence xEffect FRBm4/FRBm6 3N](#)

75.5 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)

4

Number of poles (total)

4

Rated operational voltage (U_e) - max

415 V

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

0 kA

Rated switching capacity

4.5 kA

Basic function

Combined RCD/MCB devices

Equipment heat dissipation, current-dependent

11.6 W

Rated impulse withstand voltage (U_{imp})

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)

4.5 kA

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

4.5 kA

Number of poles

Three-pole + N

Disconnection characteristic

Undelayed



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