

Eaton 168250

Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 13A, 10mA, MCB trip type B, 1-phase+N, RCCB trip type: A

PRODUCT NAME	Eaton Moeller series xEffect - FRBdM RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	168250
PRODUCT LENGTH/DEPTH	86 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	37 mm
PRODUCT WEIGHT	0.25 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE

Delivery Program

BASIC FUNCTION	Combined RCD/MCB devices
NUMBER OF POLES (TOTAL)	2
TRIPPING CHARACTERISTIC	B
TYPE	RCBO
APPLICATION	Switchgear for industrial and advanced commercial applications
TRIPPING CHARACTERISTIC	B
TYPE	RCBO
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
SENSITIVITY TYPE	Pulse-current sensitive
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.

Technical Data - Electrical

SENSITIVITY TYPE	Pulse-current sensitive
TRIPPING CHARACTERISTIC	B

Technical Data

10.2.5 LIFTING Does not apply, since the entire switchgear needs to be evaluated.

CURRENT LIMITING CLASS 3

RATED SWITCHING CAPACITY (IEC/EN 61009) 10 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2) 0 kA

DISCONNECTION CHARACTERISTIC Short-time delayed

10.10 TEMPERATURE RISE The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

WIDTH IN NUMBER OF MODULAR SPACINGS 2

HEAT DISSIPATION CAPACITY 0 W

10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT Meets the product standard's requirements.

POLLUTION DEGREE 2

10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH Is the panel builder's responsibility.

CHARACTERISTIC CURVE

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

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

[eaton-xeffect-digital-circuit-breaker-brochure-br003004en-en-us.pdf](#)

[eaton-xeffect-digital-switchgear-brochure-br003004en-en-us.pdf](#)

[eaton-xeffect-frbdm-rcbo-catalog-ca003013en-en-us.pdf](#)

[eaton-xeffect-frbdm-dimensions.jpg](#)

[eaton-xeffect-frbdm-3d-drawing-004.jpg](#)

[eaton-xeffect-frbdm-3d-drawing.jpg](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



Eaton House
30 Pembroke Road
Dublin 4,
Eaton.com

© 2025

Follow us on social media to get the latest product and support information.

