

**RCD/MCB, 2A, 30mA, miniature circuit-breaker trip curve: D, 1pole+N,  
residual current circuit-breaker trip characteristic: A**

**Part no. FRBMM-D2/1N/003-A-RT  
305141**

Product name	Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection
Part no.	FRBMM-D2/1N/003-A-RT
EAN	9010238988453
Product Length/Depth	75.5 millimetre
Product height	84.5 millimetre
Product width	35.4 millimetre
Product weight	0.203 kilogram
Compliances	RoHS conform
Certifications	EN45545-2 IEC 61373
Product Tradename	xEffect - FRBm6/M
Product Type	RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type	None
Globally Marketable	Yes
Number of poles (protected)	1
Number of poles (total)	2
Release characteristic	D
Amperage Rating	10 A
Rated current	2 A
Fault current rating	0.03 A
Voltage type	AC
Rated operational voltage (Ue) - max	240 V
Rated insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating	50 Hz
Leakage current type	A
Rated switching capacity (IEC/EN 60947-2)	15 kA
Rated short-circuit breaking capacity (EN 60947-2)	15 kA
Rated short-circuit breaking capacity (EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 61009-1)	10 kA
Rated short-circuit breaking capacity (IEC 60947-2)	15 kA
Surge current capacity	0.25 kA
Disconnection characteristic	Undelayed
Pollution degree	2
Width in number of modular spacings	2
Built-in depth	75.5 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Ambient operating temperature - max	40 °C
Ambient operating temperature - min	-25 °C

Current limiting class		3
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## Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)		
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])		
Number of poles (total)		2
Number of protected poles		1
Rated voltage	V	240
Rated insulation voltage $U_i$	V	500
Rated impulse withstand voltage $U_{imp}$	kV	4
Rated current	A	2
Rated fault current	A	0.03
Leakage current type		A
Current limiting class		3
Rated short-circuit breaking capacity according to EN 61009	kA	10
Rated short-circuit breaking capacity according to IEC 60947-2	kA	15
Rated short-circuit breaking capacity $I_{cn}$ according to EN 61009-1	kA	10
Disconnection characteristic		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		D
Concurrently switching neutral conductor		No
With interlocking device		No
Over voltage category		3
Pollution degree		2
Ambient temperature during operating	°C	-25 - 40
Width in number of modular spacings		2
Built-in depth	mm	75.5
Flush-mounted installation		No
Anti- nuisance tripping version		No
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25
Connectable conductor cross section multi-wired	mm <sup>2</sup>	1 - 25