DATASHEET - FRBMM-C13/1N/003-G

RCD/MCB combination, 13 A, 30 mA, MCB trip characteristic: C, 1p+N, RCD trip characteristic: AC

Part no. FRBMM-C13/1N/003-G 170624

Similar to illustration

General specifications	- A III
Product name	Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breake with overcurrent protection
Part no.	FRBMM-C13/1N/003-G
EAN	4015081672080
Product Length/Depth	80 millimetre
Product height	75 millimetre
Product width	35 millimetre
Product weight	0.198 kilogram
Compliances	CE Marked RoHS conform
Certifications	EN45545-2 CE IEC 61373
Product Tradename	xEffect - FRBm6/M
Product Type	RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type	None
Delivery program	
Application	Switchgear for industrial and advanced commercial applications
Product range	FRBmM
Basic function	Combined RCD/MCB devices
Number of poles	Single-pole + N
Number of poles (protected)	1
Number of poles (total)	2
Tripping characteristic	С
Release characteristic	С
Amperage Rating	13 A
Rated current	13 A
Fault current rating	0.03 A
Sensitivity type	AC current sensitive
Туре	RCBO
Fechnical Data - Electrical	
Voltage type	AC
Voltage rating	240 V - 240 V
Rated operational voltage (Ue) - max	240 V
Rated insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault currents of product range	10, 30, 100, 300 MilliAmpere
Impulse withstand current	Surge-proof, 3 kA
Frequency rating	50 Hz
Leakage current type	AC
Rated switching capacity	10 kA
Rated switching capacity (IEC/EN 61009)	10 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

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10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.1 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder is responsibility. The specifications for the switchgear observed. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear observed. 10.12 Electromagnetic compatibility The device meets the requirements, provided the information in the instruct leaflet (IL) is observed. Additional information Current limiting class 2 Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Be the panel builder's responsibility. The specifications for the switchgear observed. Additional information Current limiting class	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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10.27 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Current limiting class Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear observed. In the device meets the requirements, provided the information in the instructions and the content of the panel builder's responsibility. Additional information Current limiting class	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Meditional information Current limiting class 15 the panel builder's responsibility. 15 the panel builder's responsibility. 16 the panel builder's responsibility. 17 the panel builder's responsibility. The specifications for the switchgear observed. 18 the panel builder's responsibility. The specifications for the switchgear observed. 19 the panel builder's responsibility. The specifications for the switchgear observed. 10 the device meets the requirements, provided the information in the instruction the specification in the instruction that information is observed. 10 the device meets the requirements, provided the information in the instruction that information is observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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Additional information Current limiting class 3	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Current limiting class 3	10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	Additional information	
Features Anti-nuisance tripping version	Current limiting class	3
Concurrently switching N-neutral	Features	Anti-nuisance tripping version Concurrently switching N-neutral

Technical data ETIM 9.0

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@ss13-27-14-22-07 [AFZ810020]			
Number of poles (total)	2		
Number of protected poles	1		

Number of protected poles		1
Rated voltage	V	240
Rated insulation voltage Ui	V	500
Rated impulse withstand voltage Uimp	kV	4

Rated current	Α	13
Rated fault current	Α	0.03
Leakage current type		AC
Current limiting class		3
Power loss	W	
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 Icn according to EN 61009-1	kA	10
Disconnection characteristic		Short-time delayed
Surge current capacity	kA	3
Voltage type		AC
Frequency		50 Hz
Release characteristic		C
Concurrently switching neutral conductor		Yes
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		Yes
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm²	1 - 25
Connectable conductor cross section multi-wired	mm²	1 - 25