DATASHEET - FRBMM-C25/2/003-A



RCD/MCB combination, 25 A, 30 mA, MCB trip characteristic: C, 2p, RCD trip characteristic: A

Part no. FRBMM-C25/2/003-A 170790

Similar to illustration

General specifications	
Product name	Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breake with overcurrent protection
Part no.	FRBMM-C25/2/003-A
EAN	4015081673629
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	35 millimetre
Product weight	0.25 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	Two-pole
Number of poles (protected)	2
Number of poles (total)	2
Tripping characteristic	С
Release characteristic	С
Amperage Rating	25 A
Rated current	25 A
Fault current rating	0.03 A
Sensitivity type	Pulse-current sensitive
Type	RCBO
echnical 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	Partly surge-proof, 250 A
Frequency rating	50 Hz
Leakage current type	A
Rated switching capacity	10 kA
Rated switching capacity (IEC/EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 60947-2)	0 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)	0 kA

Figuring Non-delayed 2 Technical Data - Mechanical 2 With in number of modular spacings 2 Bulk-in depth 75.5 mm 75.5 mm 7920 75.5 mm 75.5 mm 7920 75.5 mm 75.5 mm	Disconnection characteristic	Undelayed
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Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 1 Is the panel builder's responsibility. 10.8 Connections for external conductors 1 Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1 Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1 Is the panel builder's responsibility. 1 I	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.8 Connections for external conductors 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1s the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1s the panel builder's responsibility. 1s the panel builder is responsibility. 1s the panel builder's responsibility. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed. 1s the panel builder's responsibility. The specifications for the switchgear must be observed.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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 Stream of external conductors 10.15 the panel builder's responsibility. 10.16 Is the panel builder's responsibility. 10.17 Is the panel builder is responsibility. 10.18 the panel builder's responsibility. The specifications for the switchgear must be observed. 10.19 Electromagnetic compatibility 10.19 Electromagnetic compatibility 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Electromagnetic compatibility 10.15 Stream of the switchgear must be observed. 10.16 Electromagnetic compatibility 10.17 Electromagnetic compatibility 10.18 Stream of the switchgear must be observed. 10.19 Stream of the switchgear must be observed. 10.19 Stream of the switchgear must be observed.	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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 Ethe panel builder's responsibility. 15 the panel builder's responsibility. 16 the panel builder's responsibility. 17 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 18 the panel builder's responsibility. The specifications for the switchgear must be observed. 19 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
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 Testing of enclosures made of insulating material 15 the panel builder's responsibility. 16 the panel builder's responsibility. The specifications for the switchgear must be observed. 17 the panel builder's responsibility. The specifications for the switchgear must be observed. 18 the panel builder's responsibility. The specifications for the switchgear must be observed. 19 the panel builder's responsibility. The specifications for the switchgear must be observed.	10.8 Connections for external conductors	Is the panel builder's responsibility.
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 Testing of enclosures made of insulating material 15 the panel builder's responsibility. 16 the panel builder's responsibility. The specifications for the switchgear must be observed. 17 the panel builder's responsibility. The specifications for the switchgear must be observed. 18 the panel builder's responsibility. The specifications for the switchgear must be observed. 19 the panel builder's responsibility. The specifications for the switchgear must be observed. 10 the panel builder's responsibility. The specifications for the switchgear must be observed.	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.10 Temperature rise The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.10 Temperature rise	
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	10.11 Short-circuit rating	
leaflet (IL) is observed.	10.12 Electromagnetic compatibility	
Additional information	10.13 Mechanical function	
	Additional information	

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		2
Rated voltage	V	240
Rated insulation voltage Ui	V	500
Rated impulse withstand voltage Uimp	kV	4
Rated current	А	25

Α	0.03
	A
	3
W	
kA	10
kA	0
kA	10
	Undelayed
kA	0.25
	AC
	50 Hz
	С
	No
	No
	3
	2
°C	-25 - 40
	2
mm	75.5
	No
	No
	IP20
mm²	1 - 25
mm²	1 - 25
	W kA kA kA mm