Residual current circuit breaker (RCCB), 125A, 2p, 100mA, type AC



Part no. FRCMM-125/2/01 187811

eneral specifications	
Product name	Eaton Moeller series xEffect - FRCmM-125 Type A RCCB
Part no.	FRCMM-125/2/01
EAN	4015081854950
Product Length/Depth	90 millimetre
Product height	80 millimetre
Product width	40 millimetre
Product weight	0.27 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 61008
Product Tradename	xEffect - FRCmM-125 Type A
Product Type	RCCB
Product Sub Type	None
elivery program	
Application	Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles	Two-pole
Tripping time	Non-delayed
Amperage Rating	125 A
Rated short-circuit strength	10 kA with back-up fuse
Fault current rating	100 mA
Sensitivity type	AC current sensitive
Impulse withstand current	Partly surge-proof 250 A 250 A (8/20 µs) surge-proof
Туре	FRCmM-125 Residual current circuit breakers Type AC
echnical Data - Electrical	
Voltage rating (IEC/EN 60947-2)	240 V AC
Rated operational voltage (Ue) - max	240 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault current - min	0.1 A
Rated fault current - max	0.1 A
Frequency rating	50 Hz
Short-circuit rating	125 A (max. admissible back-up fuse)
Leakage current type	AC
Rated residual making and breaking capacity	1250 A
Admissible back-up fuse overload - max	80 A gG/gL
Rated short-time withstand current (Icw)	10 kA
Surge current capacity	0.25 kA
Test circuit range	184 V AC - 250 V AC
Pollution degree	2
Lifespan, electrical	4000 operations
echnical Data - Mechanical	τουο ομοι αποιο
Frame	45 mm
Width in number of modular spacings	2
Built-in width (number of units)	35 mm (2 SU)
Built-in depth	77.5 mm

	DIN rail
Mounting position	As required
Degree of protection	IP20 IP20, IP40 with suitable enclosure
Status indication	Toggle-center postition
Terminals (top and bottom)	Twin-purpose terminals
Terminal capacity (solid wire)	1.5 mm ² - 16 mm ² (2x)
	1.5 mm ² - 50 mm ²
Connectable conductor cross section (solid-core) - min	1.5 mm ²
Connectable conductor cross section (solid-core) - max	50 mm ²
Terminal capacity (stranded cable)	1.5 mm ² - 16 mm ² (2x) 1.5 mm ² - 5 mm ²
Connectable conductor cross section (multi-wired) - min	1.5 mm²
Connectable conductor cross section (multi-wired) - max	16 mm ²
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Contact position indicator color	Red / green
Busbar material thickness	0.8 mm - 2 mm
Lifespan, mechanical	20000 operations
Climatic proofing	25-55 °C / 90-95% relative humidity according to IEC 60068-2
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	125 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	18 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Design verification as per IEC/EN 61439	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
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.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Features	Additional equipment possible Residual current circuit breaker
Fitted with:	Interlocking device
Special features	Current test marks as per inscription

	Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 2.2% for every 1 °C
Used with	Type AC FRCmM-125 Residual current circuit breakers

Technical data ETIM 9.0						
Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)						
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss13-27-14-22-01 [AAB906019])						
Number of poles			2			
Rated voltage		V	240			
Rated current		Α	125			
Rated fault current		Α	0.1			
Rated insulation voltage Ui		V	440			
Rated impulse withstand voltage Uimp		kV	4			
Power loss		W				
Mounting method			DIN rail			
Leakage current type			AC			
Selective protection			No			
Short-time delayed tripping			No			
Short-circuit breaking capacity (Icw)		kA	10			
Surge current capacity		kA	0.25			
Voltage type			AC			
With interlocking device			Yes			
Frequency			50 Hz			
Additional equipment possible			Yes			
Degree of protection (IP)			IP20			
Width in number of modular spacings			2			
Built-in depth		mm	77.5			
Ambient temperature during operating		°C	-25 - 60			
Pollution degree			2			
Connectable conductor cross section multi-wired		mm²	1.5 - 16			
Connectable conductor cross section solid-core		mm²	1.5 - 50			

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No

RAL-number (similar) Explosion-proof