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



Part no. FRCMM-125/2/01 187811

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
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
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 4 kV (1.2/50 μs)
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
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
Mounting Method	Quick attachment for DIN-rail EN 50022

Mounting position	As required
Degree of protection	IP20
	IP20, IP40 with suitable enclosure
tatus indication	Toggle-center position
erminals (top and bottom)	Twin-purpose terminals
erminal capacity (solid wire)	1.5 mm² - 16 mm² (2x) 1.5 mm² - 50 mm²
Connectable conductor cross section (solid-core) - min	1.5 mm ²
Connectable conductor cross section (solid-core) - max	50 mm ²
erminal 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 mm ²
connectable conductor cross section (multi-wired) - max	16 mm ²
erminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Contact position indicator color	Red / green
Busbar material thickness	0.8 mm - 2 mm
ifespan, mechanical	20000 operations
llimatic proofing	25-55 °C / 90-95% relative humidity according to IEC 60068-2
lated operational current for specified heat dissipation (In)	125 A
leat dissipation per pole, current-dependent	0 W
quipment heat dissipation, current-dependent	18 W
tatic heat dissipation, non-current-dependent	0 W
leat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
0.2.2 Corrosion resistance	Mosto the anadicat standard's requirements
0.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements. Meets the product standard's requirements.
0.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
0.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
0.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
0.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
0.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
0.2.7 Inscriptions	Meets the product standard's requirements.
0.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
0.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
0.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
0.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton wi
	provide heat dissipation data for the devices.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
eatures	Additional equipment possible
	Residual current circuit breaker
itted with:	Interlocking device
Special features	Current test marks as per inscription

Type AC FRCmM-125 Residual current circuit breakers

Technical data ETIM 8.0

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB)

(ecl@ss10.0.1-27-14-22-01 [AAB906014])				
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	
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	
Explosion-proof			No	