## Residual current circuit breaker (RCCB), 63A, 2p, 300mA, type A



Part no. FRCMM-63/2/03-A 304063

General specifications	
Product name	Eaton Moeller series xEffect - FRCmM Type AC, A, U, R RCCB
Part no.	FRCMM-63/2/03-A
EAN	9010238194243
Product Length/Depth	80 millimetre
Product height	76 millimetre
Product width	35 millimetre
Product weight	0.201 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 61008 EN45545-2 IEC 61373
Product Tradename	xEffect - FRCmM Type AC, A, U, R
Product Type	RCCB
Product Sub Type	None
Delivery 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	63 A
Rated short-circuit strength	10 kA with back-up fuse
Fault current rating	300 mA
Sensitivity type	Pulse-current sensitive
Impulse withstand current	250 A (8/20 µs) surge-proof Partly surge-proof 250 A
Туре	FRCmM Residual current circuit breakers Type A
Technical 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	0.3 A
Rated fault current - max	0.3 A
Frequency rating	50 Hz / 60 Hz
Short-circuit rating	63 A (max. admissible back-up fuse)
Leakage current type	A
Rated residual making and breaking capacity	630 A
Admissible back-up fuse overload - max	63 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
Technical Data - Mechanical	
Frame	45 mm
Width in number of modular spacings	2
Built-in width (number of units)	35 mm (2 SU)
Built-in depth	70.5 mm

Mounting Method	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP20, IP40 with suitable enclosure
Status indication	White / blue
Terminals (top and bottom)	Twin-purpose terminals
Terminal capacity (solid wire)	1.5 mm² - 35 mm²
Connectable conductor cross section (solid-core) - min	1.5 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	35 mm <sup>2</sup>
Terminal capacity (stranded cable)	16 mm² (2x)
Connectable conductor cross section (multi-wired) - min	1.5 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	16 mm²
Terminal capacity (cable)	M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, PZ2)
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Contact position indicator color	Red / green
Tightening torque	2 Nm - 2.4 Nm
Busbar material thickness	0.8 mm - 2 mm
Lifespan, mechanical	20000 operations
Permitted storage and transport temperature - min	-35 °C
Permitted storage and transport temperature - max	60 °C
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)	63 A
Heat dissipation per pole, current-dependent	3.6 W
Equipment heat dissipation, current-dependent	7.2 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °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	· · · · · · · · · · · · · · · · · · ·
T U	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 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.
Additional information	
Features	Additional equipment possible Residual current circuit breaker
Special features	As per inscription

	Starting at 40 °C, the max. permissible continuous current decreases by 1.8% for every 1 °C
Used with	FRCmM Residual current circuit breakers Type A

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		٧	240		
Rated current		Α	63		
Rated fault current		Α	0.3		
Rated insulation voltage Ui		V	440		
Rated impulse withstand voltage Uimp		kV	4		
Power loss		W			
Mounting method			DIN rail		
Leakage current type			A		
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			No		
Frequency			50/60 Hz		
Additional equipment possible			Yes		
Degree of protection (IP)			IP20		
Width in number of modular spacings			2		
Built-in depth		mm	70.5		
Ambient temperature during operating		°C	-25 - 75		
Pollution degree			2		
Connectable conductor cross section multi-wired		mm²	1.5 - 16		
Connectable conductor cross section solid-core		mm²	1.5 - 35		

7035

No

RAL-number (similar)

Explosion-proof