Residual current circuit breaker (RCCB), 16A, 2p, 300mA, type G/F



Part no. FRCMM-16/2/03-G/F

187377

EL Number (Norway) 1605263

(Norway)	
B. L	F . M . H
Product name	Eaton Moeller series xEffect - FRCmM Type F RCCB
Part no.	FRCMM-16/2/03-G/F
EAN	4015081824359
Product Length/Depth	80 millimetre
Product height	76 millimetre
Product width	35 millimetre
Product weight	0.201 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 62423 IEC 61373 EN45545-2 IEC/EN 61008
Product Tradename	xEffect - FRCmM Type F
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	10 ms delayed
Amperage Rating	16 A
Rated short-circuit strength	10 kA with back-up fuse
Fault current rating	300 mA
Sensitivity type	Pulse-current sensitive
Impulse withstand current	3 kA (8/20 µs) surge-proof
Туре	FRCmM Residual current circuit breakers Type G/F (ÖVE E 8601)
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	0.3 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	Other
Rated residual making and breaking capacity	500 A
Admissible back-up fuse overload - max	16 A gG/gL
Rated short-time withstand current (Icw)	10 kA
Surge current capacity	3 kA
Test circuit range	184 V AC - 250 V AC
Pollution degree	2
Radiation resistance	Frequency mix (10 Hz, 50 Hz, 1000 Hz) enhanced sensitivity
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	70.5 mm
Mounting Method	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
	DIN rail
Mounting position	As required
Degree of protection	IP20, IP40 with suitable enclosure IP20
Status indication	White / blue
Terminals (top and bottom)	Twin-purpose terminals
Terminal capacity (solid wire)	1.5 mm ² - 35 mm ²
Connectable conductor cross section (solid-core) - min	1.5 mm ²
Connectable conductor cross section (solid-core) - max	35 mm ²
Terminal capacity (stranded cable)	16 mm² (2x)
Connectable conductor cross section (multi-wired) - min	1.5 mm ²
Connectable conductor cross section (multi-wired) - max	16 mm ²
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
Rated operational current for specified heat dissipation (In)	16 A
Heat dissipation per pole, current-dependent	1 W
Equipment heat dissipation, current-dependent	2 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
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 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.

Features	Residual current circuit breaker Additional equipment possible
Fitted with:	Interlocking device
Functions	Short-time delayed tripping
Special features	Current test marks as per inscription Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
Used with	FRCmM Residual current circuit breakers Type G/F (ÖVE E 8601)

Technical data ETIM 8.0

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@xs10.01-27-14-29-01 [AAR906014])

ecl@ss10.0.1-27-14-22-01 [AAB906014])	,,		Trong processor system, nested a serior circuit streaker (11662)
Number of poles			2
Rated voltage		V	240
Rated current		Α	16
Rated fault current		Α	0.3
Rated insulation voltage Ui		V	440
Rated impulse withstand voltage Uimp		kV	4
Mounting method			DIN rail
Leakage current type			Other
Selective protection			No
Short-time delayed tripping			Yes
Short-circuit breaking capacity (Icw)		kA	10
Surge current capacity		kA	3
/oltage type			AC
Nith interlocking device			Yes
Frequency			50/60 Hz
Additional equipment possible			Yes
Degree of protection (IP)			IP20
Nidth in number of modular spacings			2
Built-in depth		mm	70.5
Ambient temperature during operating		°C	-25 - 40
Pollution degree			2
Connectable conductor cross section multi-wired		mm²	1.5 - 16
Connectable conductor cross section solid-core		mm²	1.5 - 35
Explosion-proof			No