RCCB, 40A, 4p, 30mA, Type G/F



Part no. FRCDM-40/4/003-G/F EP-501260

Product name	Eaton Moeller series xEffect - FRCdM Type B, B+, Bfq RCCB
Part no.	FRCDM-40/4/003-G/F
EAN .	9010653039228
Product Length/Depth	80 millimetre
Product height	80 millimetre
Product width	70 millimetre
Product weight Contifications	0.32 kilogram CE
Certifications Product Todonome	
Product Tradename	xEffect - FRCdM Type B, B+, Bfq
Product Type	RCCB
Product Sub Type	None
Application	Switchgear for industrial and advanced commercial applications
Number of poles	Four-pole
Tripping time	10 ms delayed Short time-delayed
Amperage Rating	40 A
Rated short-circuit strength	10 kA
Fault current rating	0.03 A
Туре	Residual current circuit-breakers, Digital, Type G/F (ÖVE E 8601)
Voltage rating (IEC/EN 60947-2)	240/415
Voltage rating - min	196
Voltage rating - max	264
Rated operational voltage (Ue) - max	415 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault current - min	30 mA
Frequency rating	50/60 Hz
Short-circuit rating	63 A (max. admissible back-up fuse)
Leakage current type	F
Rated residual making and breaking capacity	500 A
Admissible back-up fuse overload - max	25 A gG/gL
Rated short-time withstand current (Icw)	10 kA
Surge current capacity	3 kA
Pollution degree	2
Lifespan, electrical	4000 operations
Rated switching capacity (resistive load) of auxiliary contact at 30 V DC	2 A
Rated switching capacity (resistive load) of auxiliary contact at 240 V AC	0.25 A
Switching duty with resistive load of auxiliary contact - max	60 W
Switching voltage at AC of auxiliary contact - max	240 V
Switching voltage at DC of auxiliary contact - max	220 V
Switching current of auxiliary contact - max	2 A
Switching capacity of auxiliary contact - min	10 μA, 10 mV DC
Terminal capacity of auxiliary contact	0.25 mm² - 1.5 mm²
Frame	Standard front dimension: 45 mm

Width in number of modular spacings	4
Built-in width (number of units)	70 mm (4 SU)
Built-in depth	80 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 IP20, IP40 with suitable enclosure
Terminals (top and bottom)	Twin-purpose terminals
Terminal capacity (solid wire)	1.5 mm² - 35 mm²
Connectable conductor cross section (solid-core) - min	1 mm²
Connectable conductor cross section (solid-core) - max	35 mm ²
Terminal capacity (stranded cable)	16 mm² (2x)
Connectable conductor cross section (multi-wired) - min	10 mm ²
Connectable conductor cross section (multi-wired) - max	35 mm ²
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)	40 A
Heat dissipation per pole, current-dependent	0.95 W
Equipment heat dissipation, current-dependent	3.8 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
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.
10.2.4 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.
Factoria	Additional on 1 and 1919
Features	Additional equipment possible

Functions	S	Short-time delayed tripping
Special features	A	As per inscription