DATASHEET - FRBMM-B16/2/01-LIA



RCD/MCB combination, 16 A, 100 mA, MCB trip characteristic: B, 2p, RCD trip characteristic: LIA

Part no. FRBMM-B16/2/01-LIA 170812

Similar to illustration

General specifications	
Product name	Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breake with overcurrent protection
Part no.	FRBMM-B16/2/01-LIA
EAN	4015081673810
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	35 millimetre
Product weight	0.25 kilogram
Compliances	CE Marked RoHS conform
Certifications	IEC 61373 EN45545-2 CE
Product Tradename	xEffect - FRBm6/M
Product Type	RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type	None
Delivery program	
Application	Switchgear for industrial and advanced commercial applications
Product range	FRBmM
Basic function	Combined RCD/MCB devices
Number of poles	Two-pole
Number of poles (protected)	2
Number of poles (total)	2
Tripping characteristic	В
Release characteristic	В
Amperage Rating	16 A
Rated current	16 A
Fault current rating	0.1 A
Sensitivity type	Pulse-current sensitive
Type	RCBO
echnical Data - Electrical	
Voltage type	AC
Voltage rating	240 V - 240 V
Rated operational voltage (Ue) - max	240 V
Rated insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault currents of product range	10, 30, 100, 300 MilliAmpere
Impulse withstand current	Partly surge-proof, 250 A
Frequency rating	50 Hz
Leakage current type	A
Rated switching capacity	10 kA
Rated switching capacity (IEC/EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 60947-2)	0 kA
Rated short-circuit breaking capacity (EN 61009)	10 kA
Rated short-circuit breaking capacity (EN 61009-1)	10 kA
Rated short-circuit breaking capacity (IEC 60947-2)	0 kA

Surge current capacity	0.25 kA
Disconnection characteristic	Short-time delayed
Tripping	Short time-delayed
Pollution degree	2
Fechnical Data - Mechanical	
Width in number of modular spacings	2
Built-in depth	75.5 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	1 mm ²
Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (multi-wired) - min	1 mm²
Connectable conductor cross section (multi-wired) - max	25 mm ²
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	16 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	5 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - max	40 °C
Ambient operating temperature - min	-25 °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.
10.2.3.3 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.
10.6 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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	

Technical data ETIM 9.0

Current limiting class

Circuit breakers and tuses (Edoooozof) Latti leakage circuit breaker (Edooosos)

Electric engineering, automation, process control engineering / Electrical installati	engineering, automation, process control engineering / Electrical installation, device / Hesidual current protection system / MCB/HCCB combination (ecl@ss13-2/-14-22-0/ [AF2810020])					
Number of poles (total)		2				
Number of protected poles		2				
Rated voltage	V	240				
Rated insulation voltage Ui	V	500				
Rated impulse withstand voltage Uimp	kV	4				
Rated current	А	16				

Rated fault current	Α	0.1	
Leakage current type		Α	
Current limiting class		3	
Power loss	W		
Rated short-circuit breaking capacity according to EN 61009	kA	10	
Rated short-circuit breaking capacity according to IEC 60947-2	kA	0	
Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	10	
Disconnection characteristic		Short-time delayed	
Surge current capacity	kA	0.25	
Voltage type		AC	
Frequency		50 Hz	
Release characteristic		В	
Concurrently switching neutral conductor		No	
With interlocking device		No	
Over voltage category		3	
Pollution degree		2	
Ambient temperature during operating	°C	-25 - 40	
Width in number of modular spacings		2	
Built-in depth	mn	75.5	
Flush-mounted installation		No	
Anti-nuisance tripping version		No	
Degree of protection (IP)		IP20	
Connectable conductor cross section solid-core	mn	1 - 25	
Connectable conductor cross section multi-wired	mn	1 - 25	