DATASHEET - FRBMM-B13/1N/003-G

RCD/MCB combination, 13 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: AC

Part no.

FRBMM-B13/1N/003-G 170710

Similar to illustration

Pedectame Final Moder series 47816-78884/820 - relation current rice bit handsee Per se. Final Moder series 478167 Final Moder series 478167 Final Moder Series 478167 Final Moder Serie	General specifications	
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Product Tradename CE Application Cembrand advanced commercial applications Product range Cembrand RCD/MCB devices Number of poles Single pole N Number of poles (protocted) Single pole N Number of poles (tradename Single pole N Release characteristic 8 Release characteristic 8 Release characteristic 8 Sensitivity type Cerrent censitive Type Cerrent censitive Type Cerrent censitive Runde current censitive sensitive Cerrent censitive Type Cerrent censitive Runde current censitive sensitive Cerrent censitive Type Cerrent censitive Runde current censitive sensitive Cerrent censitive Type Cerrent censitive censitive Runde c	Compliances	
Product TypeBCB0 - Residual-current circuit breaker with overcurrent protectionProduct Sub TypeNoneDelivery programNoneApplicationSwitchgear for industrial and advanced commercial applicationsProduct rangeSingle-pole NBasic functionCombined RCD/MCB devicesNumber of poles (protected)1Number of poles (stoth)1Release characteristicBRelease characteristicBVoltage typeCVoltage typeCVoltage typeCVoltage typeCVoltage typeSoot VReleade currentSurge-proof, 3 kAFrequency ratingSurge-proof, 3 kAReleade current typeSurge-proof, 3 kAFrequency ratingSurge-proof, 3 kAFrequency rating capacity (IECEN F0009)IS kARelead short-circ	Certifications	EN45545-2
Product Sub Type None Delivery program Switchgear for industrial and advanced commercial applications Application Switchgear for industrial and advanced commercial applications Product range Switchgear for industrial and advanced commercial applications Basic function Combined RCD/MCB devices Number of poles Single-optic/MCB devices Number of poles (protected) Single-optic/MCB devices Number of poles (protected) I Number of poles (tota) I Release characteristic B Voltage type AC currant sensitive Voltage type AC Voltage type AC Voltage type AC Rated operational voltage (Uin) AV Rated operational voltage (Uin) Surge-proof. S IA Frequency rating Surge-proof. S IA Rated operational voltage (Uin) AC Rated operational	Product Tradename	xEffect - FRBm6/M
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Application Switchgear for industrial and advanced commercial applications Product range FRBMM Basic function Combined RCD/MCB devices Number of poles (protected) Single-pole + N Number of poles (protected) 2 Number of poles (total) B Release characteristic B Release characteristic B Release characteristic Single-pole + N Rated current rating Single - Single + N Sansitivity type B Technical Data - Electrical B Voltage rating Single - Single + N Number of poles (total) Single - Single + N Voltage rating Single - Single + N Reted portional Voltage (UP) - max AC Reted portional Voltage (UI) Single - Single + N Rated insulation voltage (UI) Single -	Product Sub Type	None
Product range FBBmM Basic function Combined RCD/MCB devices Number of poles Single-pole + N Number of poles (protected) 1 Number of poles (rottal) 2 Tripping characteristic B Release characteristic B Rated current 0.03.A Sensitivity type 0.03.A Sensitivity type 0.03.A Tryping that-electrical 0.03.A Voltage type 0.03.A Voltage type AC Voltage type AC Voltage type Sono V Rated insultation voltage (Uip) - max Sono V Rated insultation voltage (Uip) Sono V Rated insultation voltage (Uip) Sono V Rated insultation voltage (Uip) Sono V Rated insultation voltage (Uim) Sono V Rated insultation voltage (Uim) Sono V Rated insultation voltage (Uim) Sono V Rated aburt-circuit breaking capacity (IEC 60597-2) Sono V Rated solution contage (IVP) Sono V Rated solution current of product range Sono V <	Delivery program	
Basic function Combined RCD/MCB devices Number of poles Single-pole + N Number of poles (protected) 1 Number of poles (total) 2 Tripping characteristic 8 Release characteristic 8 Rated current 13 A Fault current rating 0.03 A Sansitivity type AC current sensitive Type AC Voltage type 240 V - 240 V Rated operational voltage (Up) - max 240 V - 240 V Rated insulation voltage (Uin) 4K Rated insulation voltage (Uin) 500 V Rated shart current of product range 500 V Rated shart current of product range	Application	Switchgear for industrial and advanced commercial applications
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Number of poles (total)Image: pole pole (total)2Tripping characteristicBRelease characteristicBRated currentIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Number of poles	Single-pole + N
Tripping characteristicFigure of the sector of	Number of poles (protected)	1
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Technical Data - Electrical Image: Second Secon	Sensitivity type	AC current sensitive
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Rated fault currents of product range10, 30, 100, 300 MilliAmpereImpulse withstand currentSurge-proof, 3 kAFrequency ratingSo HzLeakage current typeACRated switching capacity10 kARated switching capacity (IEC/EN 61009)10 kARated short-circuit breaking capacity (EN 60947-2)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kA	Rated insulation voltage (Ui)	500 V
Impulse withstand currentSurge-proof, 3 kAFrequency rating50 HzLeakage current typeACRated switching capacity10 kARated switching capacity (IEC/EN 61009)10 kARated short-circuit breaking capacity (EN 60947-2)15 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009-11)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kA	Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating50 HzLeakage current typeACRated switching capacity10 kARated switching capacity (IEC/EN 61009)10 kARated short-circuit breaking capacity (EN 60947-2)15 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009-11)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kA	Rated fault currents of product range	10, 30, 100, 300 MilliAmpere
Leakage current typeACRated switching capacity10 kARated switching capacity (IEC/EN 61009)10 kARated short-circuit breaking capacity (EN 60947-2)15 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009-1)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kARated short-circuit breaking capacity (EN 61009-1)10 kARated short-circuit breaking capacity (IEC 60947-2)15 kA	Impulse withstand current	Surge-proof, 3 kA
Rated switching capacity10 kARated switching capacity (IEC/EN 61009)10 kARated short-circuit breaking capacity (EN 60947-2)15 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009)10 kARated short-circuit breaking capacity (EN 61009-1)10 kARated short-circuit breaking capacity (IEC 60947-2)10 kA	Frequency rating	50 Hz
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Rated short-circuit breaking capacity (IEC 60947-2) 15 kA	Rated short-circuit breaking capacity (EN 61009)	10 kA
	Rated short-circuit breaking capacity (EN 61009-1)	10 kA
Surge current capacity 3 kA	Rated short-circuit breaking capacity (IEC 60947-2)	15 kA
	Surge current capacity	3 kA

Disconnection characteristic	Short-time delayed	
Tripping	Short time-delayed	
Pollution degree	2	
Technical Data - Mechanical		
Width in number of modular spacings	2	
Built-in depth		
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 mm ²	
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)	13 A	
Heat dissipation per pole, current-dependent	0 W	
Equipment heat dissipation, current-dependent	3.4 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 ev	aluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be ev	aluated.
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 ev	aluated.
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 ev	aluated.
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 ca provide heat dissipation data for the devices.	alculation. Eaton will
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for to observed.	he switchgear must be
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for to observed.	he switchgear must be
10.13 Mechanical function	The device meets the requirements, provided the informati leaflet (IL) is observed.	on in the instruction
Additional information		
Current limiting class	3	
Features	Anti-nuisance tripping version Concurrently switching N-neutral	

Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)						
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss13-27-14-22-07 [AFZ810020])						
Number of poles (total)		2				
Number of protected poles		1				
Rated voltage	V	240				
Rated insulation voltage Ui	V	500				
Rated impulse withstand voltage Uimp	kV	4				
Rated current	А	13				

Rated fault current	А	0.03
Leakage current type		AC
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	15
Rated short-circuit breaking capacity Icn according to EN 61009-1	kA	10
Disconnection characteristic		Short-time delayed
Surge current capacity	kA	3
Voltage type		AC
Frequency		50 Hz
Release characteristic		В
Concurrently switching neutral conductor		Yes
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	mm	75.5
Flush-mounted installation		No
Anti-nuisance tripping version		Yes
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm²	1 - 25
Connectable conductor cross section multi-wired	mm²	1 - 25