DATASHEET - FRBMM-D20/3/003-A



RCD/MCB combination, 20 A, 30 mA, MCB trip characteristic: D, 3p, RCD trip characteristic: A

Part no.

FRBMM-D20/3/003-A 170778

Similar to illustration

Product name Eano Maeller staffer - FBB mill MCBD - residual-current circuit breaker Part no. FBB MIAL D23 (305 A. EAN FBB MIAL D23 (305 A. Product breight FBB MIAL D23 (305 A. Certifications FBB MIAL D23 (305 A. Product Trademame GB S. Product Trademame GB S. Product Trademame	General specifications		
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Product weight 0.34 klogram Compliances RelS conform Carlifications RelS conform Carlifications CE Product Trademanne CE Product Trademanne CE Product Sub Type REBO Product Carge REBO Number of poles (fortabuted) Sector Number of poles (fortabuted) Sector Number of poles (fortabuted) Sector Relate Ameridation Sector Relate Carrent attribute Sector Relate Carrent attribute Sector Sensibility type Sector Voltage trating	Product height	75.5 millimetre	
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Cartifications Image: Signame Image: Signam Image: Signame Image:	Product weight	0.39 kilogram	
Product Tradename KEfect FRB/m8/M Product Tradename KEfect FRB/m8/M Product Type RB08 Product Type RB08 Product Type RB08 Product Type RB08 Application RB08 Product ange Switchgear for industrial and advanced commercial applications Product ange Switchgear for industrial and advanced commercial applications Number of poles FRBmM Number of poles (totectod) Three-pole Number of poles (totectod) 3 Number of poles (totectod) Jack Release characteristic D Release characteristic D Release characteristic D Switchgrap (LB) Zack Release characteristic D Switchgrap (LB) Zack Release characteristic D Release characteristic D <td>Compliances</td> <td>RoHS conform</td> <td></td>	Compliances	RoHS conform	
Product Type RCB0 - Residual-current circuit breaker with overcurrent protection Product Sub Type None Delivery program Solid Statument of the second	Certifications	IEC 61373	
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 Switchgear for industrial and advanced commercial applications Number of poles Combined RCO/MCB devices Number of poles (total) S Number of poles (total) S Anperage Raing D Rated current D Rated current rating SO/A Sensitivity type CO Technical Data - Electrical CO Voltage rating SO/A Rated operational voltage (Ub) - max SO/A Rated operational voltage (Ub) - max SO/A Rated operational voltage (Ump) SO/A Rated operational voltage (Ump) SO/A Rated insulation voltage (Ump) SO/A	Product Tradename	xEffect - FRBm6/M	
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Application Image Switchgeer for industrial and advanced commercial applications Product range FRBmM Basic function Combined RCD/MCB devices Number of poles (protected) 3 Number of poles (trattered) 3 Number of poles (trattered) 0 Release characteristic 0 Rated current 0 Sensitivity type 0 Type Pulse-current sensitive Type RCBO Voltage rating 4 Voltage rating 4 Rated operational voltage (Ue) - max 4 Rated fault current and voltage (Uinp) 4 Rated fault current voltage current type 00 Rated fault current voltage rating 4 Voltage rating 4 Rated fault current voltage (Uinp) 4 Rated switching capacity (EC/EN 61009) 6	Product Sub Type	None	
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Rated switching capacity (IEC/EN 61009) 10 kA Rated short-circuit breaking capacity (EN 60947-2) 10 kA	Frequency rating	50 Hz	
Rated switching capacity (IEC/EN 61009) 10 kA Rated short-circuit breaking capacity (EN 60947-2) 15 kA	Leakage current type	A	
Rated short-circuit breaking capacity (EN 60947-2)	Rated switching capacity	10 kA	
	Rated switching capacity (IEC/EN 61009)	10 kA	
Rated short-circuit breaking capacity (EN 61009)	Rated short-circuit breaking capacity (EN 60947-2)	15 kA	
	Rated short-circuit breaking capacity (EN 61009)	10 kA	
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Rated short-circuit breaking capacity (IEC 60947-2) 15 kA	Rated short-circuit breaking capacity (IEC 60947-2)	15 kA	

Surge current capacity	0.25 kA
Disconnection characteristic	Undelayed
Tripping	Non-delayed
Pollution degree	2
Fechnical Data - Mechanical	
Width in number of modular spacings	4
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 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)	20 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	9.7 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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
dditional information	
Current limiting class	3

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)		3		
Number of protected poles		3		
Rated voltage	V	415		
Rated insulation voltage Ui	V	500		
Rated impulse withstand voltage Uimp	kV	4		
Rated current	А	20		

Rated fault current	А	0.03
Leakage current type		A
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		Undelayed
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		D
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		4
Built-in depth	mm	75.5
Flush-mounted installation		No
Anti-nuisance tripping version		No
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm²	1 - 25
Connectable conductor cross section multi-wired	mm²	1 - 25