DATASHEET - FRBM4-C20/3N/03

RCD/MCB combination, 20 A, 300 mA, MCB trip characteristic: C, 3p+N, RCD trip characteristic: AC

Powering Business Worldwide

Part no.	**FRBM4-C20/3N/03**
Catalog No.	**170951**
Alternate Catalog No.	**FRBM4-C20/3N/03**

Delivery program

Basic function			Combined RCD/MCB devices
Number of poles			3 pole+N
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	I_n	A	20
Rated switching capacity according to IEC/EN 61009		kA	4.5
Rated fault current	$I_{\Delta N}$	A	0.3
Type			Type AC
Tripping		s…	non-delayed
Product range			FRBm4
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			

Technical data

Electrical

Protected pole			4
Rated voltage according to IEC/EN 60947-2	U_n	V AC	240
Rated frequency	f	Hz	50
Rated fault current	$I_{\Delta n}$	mA	300
Sensitivity			AC current sensitive
Rated current	I_n	A	20
Tripping characteristic			C
Standards			EN 45545-2; IEC 61373

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	20
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	5.4
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
			0

Technical data ETIM 7.0

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@ss10.0.1-27-14-22-07 [AFZ810015])

Number of poles (total)			4
Number of protected poles			4
Rated voltage		V	415
Rated insulation voltage Ui		V	500
Rated impulse withstand voltage Uimp		kV	4

Rated current	A	20
Rated fault current	A	0.3
Leakage current type		AC
Current limiting class		3
Rated short-circuit breaking capacity acc. EN 61009	kA	4.5
Rated short-circuit breaking capacity IEC 60947-2	kA	4.5
Rated short-circuit breaking capacity Icn acc. EN 61009-1	kA	4.5
Disconnection characteristic		
Surge current capacity	kA	0.25
Voltage type		AC
Frequency		50 Hz
Release characteristic		C
Concurrently switching N-neutral		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		4
Built-in depth	mm	75.5
Suitable for flush-mounted installation		No
Anti-nuisance tripping version		No
Degree of protection (IP)		IP20
Connectable conductor cross section solid-core	mm^2	1 - 25
Connectable conductor cross section multi-wired	mm^2	1 - 25

Dimensions

Additional product information (links)

Product overview (Web)	http://www.eaton.eu/Europe/Electrical/ProductsServices/CircuitProtection/DigitalCircuitBreakers/index.htm

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