DATASHEET - FRBM6-C2/1N/03



RCD/MCB combination, 2 A, 300 mA, MCB trip characteristic: C, 1p+N, RCD trip characteristic: AC



Part no.FRBM6-C2/1N/03Catalog No.177730Alternate CatalogFRBM6-C2/1N/03No.No.

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	2
Equipment heat dissipation, current-dependent	P _{vid}	W	1.4
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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.
10.5 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 Insulation properties			
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.

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)

[AFZ810015] Implementation Number of poles (total) Implementation Number of protected poles Implementation Rated voltage Implementation Rated insulation voltage Uimp Implementation Rated ingulse withstand voltage Uimp Implementation Rated fault current Implementation					
Number of protected polesIRated voltageV240Rated insulation voltage UinpV500Rated currentKV4Rated fault currentA2Rated fault current ypeAA	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])				
Rated voltageV240Rated insulation voltage UiV500Rated insulation voltage UimpKV4Rated insulation voltage UimpAARated fault currentAARated fault current Leakage current typeAC	Number of poles (total)		2		
Rated insulation voltage Ui V 500 Rated inpulse withstand voltage Uimp KV 4 Rated current A 2 Rated fault current A 0.3 Leakage current type Image: A A	Number of protected poles		1		
Rated impulse withstand voltage Uimp kV 4 Rated current A 2 Rated fault current A 0.3 Leakage current type A A	Rated voltage	V	240		
Rated current A 2 Rated fault current A 0.3 Leakage current type A A	Rated insulation voltage Ui	V	500		
Rated fault current A 0.3 Leakage current type A AC	Rated impulse withstand voltage Uimp	kV	4		
Leakage current type AC	Rated current	А	2		
	Rated fault current	А	0.3		
Current limiting class 3	Leakage current type		AC		
	Current limiting class		3		

Rated short-circuit breaking capacity acc. EN 61009 kA 6 Rated short-circuit breaking capacity IEC 60947-2 kA 6 Rated short-circuit breaking capacity Icn acc. EN 61009-1 kA 6 Disconnection characteristic kA 0.25	
Rated short-circuit breaking capacity Icn acc. EN 61009-1kA6Disconnection characteristicSurge current capacitykA0.25	
Disconnection characteristic kA 0.25	
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	40
Width in number of modular spacings 2	
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	