DATASHEET - FRBM6-D6/3N/003-A



RCD/MCB combination switch, 6A, 30mA, miniature circuit-br. type D trip characteristic, 3-phase+N, residual current circuit-br. trip characteristic: A



Part no. FRBM6-D6/3N/003-A Catalog No. 171008 Alternate Catalog FRBM6-D6/3N/003-A No.

Similar to illustration

110	INCEN	program
	IIVEIV	
		program

Delivery program			
Basic function			Combined RCD/MCB devices
Number of poles			3 pole+N
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	6
Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type A
Tripping		s	non-delayed
Product range			FRBm6
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			1 3 5 N T - 2 4 6 N

Technical data Electrical

210041041			
Protected pole			3
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	30
Sensitivity			Pulse-current sensitive
Rated current	In	Α	6
Tripping characteristic			D

Design verification as per IEC/EN 61439

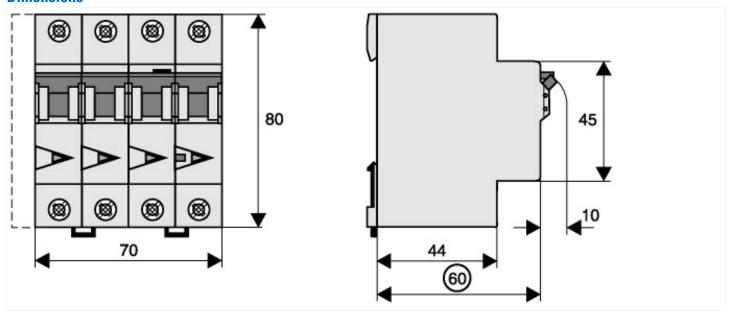
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4.8
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
			0
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

lechnical data Ettivi 7.0			
Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905			
Electric engineering, automation, process control engineering / Electrical instal AFZ810015])	lation, device / Residu	ual curi	rent protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07
Number of poles (total)			4
Number of protected poles			3
Rated voltage	V		415
Rated insulation voltage Ui	V		500
Rated impulse withstand voltage Uimp	kV	V	4
Rated current	А		6
Rated fault current	А		0.03
eakage current type			A
Current limiting class			3
Rated short-circuit breaking capacity acc. EN 61009	k#	Д	6
Rated short-circuit breaking capacity IEC 60947-2	k.A	Д	6
Rated short-circuit breaking capacity Icn acc. EN 61009-1	k#	Д	6
Disconnection characteristic			
Surge current capacity	k.A	Д	0.25
oltage type			AC
requency			50 Hz
Release characteristic			D
Concurrently switching N-neutral			Yes
Nith interlocking device			No
Over voltage category			3
Pollution degree			2
Ambient temperature during operating	°C	C	-25 - 40
Vidth in number of modular spacings			4
Built-in depth	mı	ım	75.5
uitable for flush-mounted installation			No
anti-nuisance tripping version			No
Degree of protection (IP)			IP20
Connectable conductor cross section solid-core	mı	ım²	1 - 25
Connectable conductor cross section multi-wired	mı	ım²	1 - 25

Dimensions



Additional product information (links)

Product overview (Web)

http://www.eaton.eu/Europe/Electrical/ProductsServices/CircuitProtection/DigitalCircuitBreakers/index.htm