DATASHEET - FRBDM-B16/2/003-G/A



RCD/MCB comb. switch, 16A, 30mA, miniature circuit-breaker type B trip characteristic, 2p, residual current circuit-breaker trip characteristic: A



Part no. FRBDM-B16/2/003-G/A Catalog No. FRBDM-B16/2/003-G/A

Similar to illustration

Delivery program			
Basic function			Combined RCD/MCB devices
Number of poles			2 pole
Tripping characteristic			В
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	16
Rated switching capacity according to IEC/EN 61009		kA	10
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type G/A (ÖVE E 8601)
Tripping		s	Short time-delayed
Product range			FRBdM
Sensitivity			Pulse-current sensitive
Impulse withstand current			Surge-proof, 3 kA
Contact sequence			

Technical data Electrical

Protected pole			2
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	16
Tripping characteristic			В

Design verification as per IEC/EN 61439

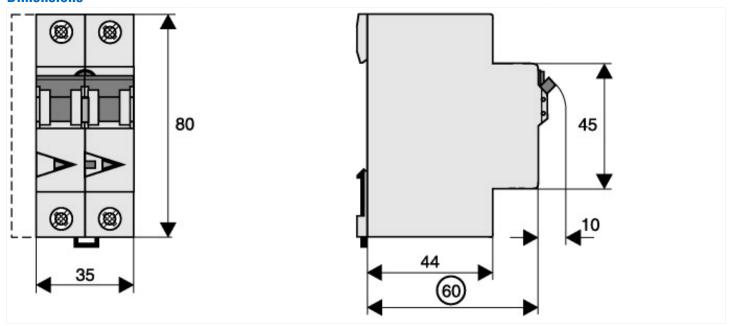
In	Α	16
P _{vid}	W	0
P _{vid}	W	4.5
P_{vs}	W	0
P _{diss}	W	0
	°C	-25
	°C	40
		0
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

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

IECNNICAI data ETIWI 7.0			
Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905	5)		
Electric engineering, automation, process control engineering / Electrical instal AFZ810015])	llation, device / Resi	idual cur	rrent protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07
Number of poles (total)			2
Number of protected poles			2
Rated voltage		V	240
Rated insulation voltage Ui		V	250
Rated impulse withstand voltage Uimp		kV	4
Rated current		Α	16
Rated fault current		А	0.03
eakage current type			A
Current limiting class			3
Rated short-circuit breaking capacity acc. EN 61009		kA	10
Rated short-circuit breaking capacity IEC 60947-2		kA	0
Rated short-circuit breaking capacity Icn acc. EN 61009-1		kA	10
Disconnection characteristic			Short-time delayed
Surge current capacity		kA	3
oltage type			AC
requency			50 Hz
Release characteristic			В
Concurrently switching N-neutral			No
Nith interlocking device			No
Over voltage category			3
Pollution degree			2
Ambient temperature during operating		°C	-25 - 40
Nidth in number of modular spacings			2
Built-in depth		mm	70
uitable for 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

Dimensions



Additional product information (links)

Product overview (Web)

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