DATASHEET - FBHMV-125/4/003-A

Part no. Catalog No.

No.



Residual-current circuit breaker trip block for AZ, 125A, 4p, 30mA, type A

FBHMV-125/4/003-A 170130 Alternate Catalog FBHMV-125/4/003-A



Similar to illustration

Delivery program Basic function Add-on residual current protection unit Number of poles 4 pole Switchgear for industrial and advanced commercial applications Application 125 Rated current А ١_n Rated short-circuit strength I_{cn} kΑ same as connected AZ 0.03 Rated fault current $\mathsf{I}_{\Delta \mathsf{N}}$ А Туре Type A Tripping non-delayed s... Product range FBHmV Sensitivity Pulse-current sensitive Impulse withstand current Partly surge-proof 250 A Contact sequence

Technical data

Electrical					
Rated frequency	f	Hz	50		
Sensitivity			Pulse-current sensitive		
Rated current	In	Α	125		
Rated impulse withstand voltage	U _{imp}	kV	4		
lifespan					
Electrical	Operations		≧ 1000		
Mechanical	Operations		≧ 8000		
Mechanical					
Standard front dimension		mm	45		
Device height		mm	90		
Built-in width		mm	95 (5.5TE)		
Mounting			screwed onto AZ 2-, 3-, 4-pole; Z-BHASA		
Degree of Protection			IP20, IP40 with suitable enclosure		
Terminals top and bottom			Lift terminals		
Terminal protection			DGUV VS3, EN 50274		
Permissible storage and transport temperatures		°C	-35 - +60		
Climatic proofing			25-55°C/90-95% relative humidity according to IEC 60068-2		

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	125
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	39.7
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

	Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
IEC/EN 61439 design verification	every i C
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 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.

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss10.0.1-27-14-22-01 [AAB906014])					
Number of poles		4			
Rated voltage	V	415			
Rated current	А	125			
Rated fault current	mA	30			
Rated insulation voltage Ui	V	440			
Rated impulse withstand voltage Uimp	kV	4			
Mounting method		DIN rail			
Leakage current type		Α			
Selective protection		No			
Short-time delayed tripping		No			
Short-circuit breaking capacity (Icw)	kA	0			
Surge current capacity	kA	0.25			
Frequency		50 Hz			
Additional equipment possible		Yes			
With interlocking device		Yes			
Degree of protection (IP)		IP20			
Width in number of modular spacings		5.5			
Built-in depth	mm	70			
Ambient temperature during operating	°C	-25 - 40			
Pollution degree		2			
Connectable conductor cross section multi-wired	mm²	2.5 - 50			
Connectable conductor cross section solid-core	mm²	2.5 - 50			

Dimensions

