DATASHEET - FBHMV-80/4/05



Residual-current circuit breaker trip block for AZ, 80A, 4p, 500mA, type AC $\,$



Part no. FBHMV-80/4/05 Catalog No. 170253 Alternate Catalog FBHMV-80/4/05 No.

Similar to illustration

Delivery program			
Basic function			Add-on residual current protection unit
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	80
Rated short-circuit strength	I _{cn}	kA	same as connected AZ
Rated fault current	$I_{\Delta N}$	Α	0.5
Туре			Type AC
Tripping		s	non-delayed
Product range			FBHmV
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			1' 3' 5' 7'/N 13 T 1 4 6' 8'/N 14

Technical data Electrical

Types conform to			IEC/EN 60947-2
Rated frequency	f	Hz	50
Sensitivity			AC current sensitive
Rated current	In	Α	80
Rated impulse withstand voltage	U _{imp}	kV	4
lifespan			
Electrical	Operations		≧ 1500
Mechanical	Operations		≧ 10000
Mechanical			

Mechanical		
Standard front dimension	mr	m 45
Device height	mr	m 90
Built-in width	mr	m 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

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	80
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	7
Static heat dissipation, non-current-dependent	$P_{\nu s}$	W	0
Heat dissipation capacity	P _{diss}	W	0

	-25
°C	40
	Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
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	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
	Is the panel builder's responsibility. The specifications for the switch gear must be observed.
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	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	°C

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

Number of poles		4
Rated voltage	٧	415
Rated current	Α	80
Rated fault current	mA	500
Rated insulation voltage Ui	٧	440
Rated impulse withstand voltage Uimp	kV	4
Mounting method		DIN rail
Leakage current type		AC
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

