DATASHEET - FBHMV-80/4/05

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



Part no.

FBHMV-80/4/05 170253

Concret energifications	
General specifications	
Product name	Eaton Moeller series xEffect - FBHmV RCCB add-on unit
Part no.	FBHMV-80/4/05
EAN	4015081667550
Product Length/Depth	94.5 millimetre
Product height	80 millimetre
Product width	90 millimetre
Product weight	0.489 kilogram
Compliances	RoHS conform
Certifications	IEC 61373 EN45545-2 IEC/EN 60947-2
Product Tradename	FBHmV
Product Type	RCCB add-on unit
Product Sub Type	None
Delivery program	
Application	Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles	Four-pole
Tripping time	Non-delayed
Amperage Rating	80 A
Rated short-circuit strength	Same as connected AZ
Fault current rating	500 mA
Sensitivity type	AC current sensitive
Impulse withstand current	Partly surge-proof 250 A
Туре	Ambient temperature hint: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
Technical Data - Electrical	
Voltage rating - min	240 V
Voltage rating - max	415 V
Rated operational voltage (Ue) - max	415 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault current - min	0.5 A
Rated fault current - max	0.5 A
Frequency rating	50 Hz
Leakage current type	AC
Rated short-time withstand current (Icw)	0 kA 10 kA
Surge current capacity	0.25 kA
Pollution degree	2
Lifespan, electrical	1500 operations
Technical Data - Mechanical	
Frame	45 mm
Width in number of modular spacings	5.5
Built-in width (number of units)	95 mm (5.5 SU)
Built-in depth	70 mm
Mounting Method	DIN rail Screwed onto AZ 2-, 3-, 4-pole; Z-BHASA
Degree of protection	IP20, IP40 with suitable enclosure

Terminals (top and bottom)Lift terminalsConnectable conductor cross section (solid-core) - min2.5 mm³Connectable conductor cross section (multi-wired) - min50 mm²Connectable conductor cross section (multi-wired) - min2.5 mm³Connectable conductor cross section (multi-wired) - max50 mm²Connectable conductor cross section (multi-wired) - max50 mm²Connectable conductor cross section (multi-wired) - max50 mm²Connectable conductor cross section (multi-wired) - max50 mm²Terminal protection50 mm²Liftspan, mechanical10000 operationsPermitted storage and transport temperature - min-35 °CPermitted storage and transport temperature - max60 °CClimatic proofing25-55 °C / 90-95% relative humidity according to IEC 60068-2Design verification as per IEC/EN 61439 - technical data80 ARated oparational current for spacified heat dissipation (In)80 AHeat dissipation, current-dependent0 WEquipment heat dissipation, current-dependent0 WAmbient oparating temperature - min-25 °CAmbient oparating temperature - min-25 °CAmbient oparating temperature - min-25 °CAmbient oparating temperature - min-25 °CDesign verification as per IEC/EN 61439Meets the product standard's requirements.102.23 Verification on thermal stability of enclosuresMeets the product standard's requirements.102.23 Verification of termal stability of enclosuresMeets the product standard's requirements.102.25 Lifting<	
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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.	
10.6 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.	
10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	
10.9.3 Impulse withstand voltage	
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. Eat provide heat dissipation data for the devices.	in will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgeat observed.	
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear observed.	
10.13 Mechanical function The device meets the requirements, provided the information in the instruction in the instructine in the instruction in the instruction in the instruc	ction
Additional information	
Features Add-on residual current protection unit Additional equipment possible	
Fitted with: Interlocking device	
Special features Add-on residual current protection unit FBHmV Type AC	
Used with Type AC FBHmV Add-on residual current protection unit	

Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) module (EC002297)

Electric engineering, automation, process control engineering / Electrical installati (ecl@ss13-27-14-22-10 [ACN357016])	ion, device / Residual cur	rent protection system / Residual current circuit breaker (RCCB) module	
Nominal voltage	V	240 - 415	

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Nominal current	А	80

Rated fault current adjustable		No
Rated fault current	А	0.5 - 0.5
Max. delay time	ms	0
Delay adjustable		No
Number of poles		4
Leakage current type		AC
Surge current capacity	kA	0.25
Frequency		50 Hz
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Power loss	W	
Connectable conductor cross section solid-core	mm²	2.5 - 50
Connectable conductor cross section multi-wired	mm²	2.5 - 50
Anti-nuisance tripping version		No
With interlocking device		Yes
Degree of protection (IP)		IP20
Pollution degree		2
Ambient temperature during operating	°C	-25 - 40