DATASHEET - FBHMV-125/2/003-A

Residual-current circuit breaker trip block for AZ, 125A, 2p, 30mA, type A

Part no. **FBHMV-125/2/003-A**
170258

General specifications	
Product name	Eaton Moeller series xEffect - FBHmV RCCB add-on unit
Part no.	FBHMV-125/2/003-A
EAN	4015081667604
Product Length/Depth	94.5 millimetre
Product height	80 millimetre
Product width	90 millimetre
Product weight	0.416 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename	FBHmV
Product Type	RCCB add-on unit
Product Sub Type	None
Delivery program	
Application	xEffect - Switchgear for industrial and advanced commercial applications Switchgear for industrial and advanced commercial applications
Number of poles	Two-pole
Tripping time	Non-delayed
Amperage Rating	125 A
Rated short-circuit strength	Same as connected AZ
Fault current rating	30 mA
Sensitivity type	Pulse-current sensitive
Impulse withstand current	Partly surge-proof 250 A
Type	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	240 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Rated fault current - min	0.03 A
Rated fault current - max	0.03 A
Frequency rating	50 Hz
Leakage current type	A
Rated short-time withstand current (Icw)	0 kA 10 kA
Surge current capacity	0.25 kA
Pollution degree	2
Lifespan, electrical	1000 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	Screwed onto AZ 2-, 3-, 4-pole; Z-BHASA DIN rail
Degree of protection	IP20 IP20, IP40 with suitable enclosure

Terminals (top and bottom)			Lift terminals
Connectable conductor cross section (solid-core) - min			2.5 mm^2
Connectable conductor cross section (solid-core) - max			50 mm^2
Connectable conductor cross section (multi-wired) - min			2.5 mm^2
Connectable conductor cross section (multi-wired) - max			50 mm^2
Terminal protection			Finger and hand touch safe, DGUV VS3, EN 50274
Lifespan, mechanical			8000 operations
Permitted storage and transport temperature - min			-35 °C
Permitted storage and transport temperature - max			60 °C
Climatic proofing			25-55 °C / 90-95% relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)			125 A
Heat dissipation per pole, current-dependent			0 W
Equipment heat dissipation, current-dependent			26.4 W
Heat dissipation capacity			0 W
Ambient operating temperature - min			-25 °C
Ambient operating temperature - max			40 °C

Design verification as per IEC/EN 61439

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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects			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.
10.6 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			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.

Additional information

Features			Add-on residual current protection unit Additional equipment possible
Fitted with:			Interlocking device
Special features			Type A FBHmV Add-on residual current protection unit
Used with			Type A 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 installation, device / Residual current protection system / Residual current circuit breaker (RCCB) module (ecl@ss13-27-14-22-10 [ACN357016])

Nominal voltage		V	240 - 415
Nominal current		A	125
Rated fault current adjustable			No

Rated fault current		A	0.03 - 0.03
Max. delay time		ms	0
Delay adjustable			No
Number of poles			2
Leakage current type			A
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		mm^2	2.5 - 50
Connectable conductor cross section multi-wired		mm^2	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

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