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



Part no. FBHMV-80/4/05 170253

Product name	Foton Modley series of Fact FRI In V POOR and a remain
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
elivery program	
Application	Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles	Four-pole 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
echnical 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
echnical 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

	IP20
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	10000 operations
Permitted storage and transport temperature - min	-35 °C
Permitted storage and transport temperature - max	60 °C
Climatic proofing	25-55 $^{\circ}\text{C}$ / 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)	80 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	7 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	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 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	Α	80

Rated fault current adjustable		No
Rated fault current	Α	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