

Eaton 170158

Eaton Distribution parts. Residual-current circuit breaker trip block for FAZ, 40A, 2pole, 100mA, type S/A

PRODUCT NAME	Eaton Moeller series xEffect - FBSmV RCCB add-on unit
CATALOG NUMBER	170158
PRODUCT LENGTH/DEPTH	90 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.197 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN45545-2 IEC 61373 IEC/EN 61009

USED WITH	Type S/A FBSmV Add-on residual current protection unit
AMPERAGE RATING	40 A
FEATURES	Additional equipment possible Selective protection Add-on residual current protection unit
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.
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.
10.2.4 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

[eaton-pbsm-dimensions.jpg](#)

	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.
10.9.2 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.
FITTED WITH:	Interlocking device
FRAME	45 mm
FREQUENCY RATING	50 Hz
POLLUTION DEGREE	2
MOUNTING METHOD	DIN rail Permanent screw connection with FAZ
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	13 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED SHORT-TIME WITHSTAND CURRENT	0 kA 10 kA

(ICW)	
BUILT-IN WIDTH (NUMBER OF UNITS)	70 mm (2 SU)
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Lift terminals
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	35 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	0.75 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	0.75 mm ²
FAULT CURRENT RATING	100 mA
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 W
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C
DEGREE OF PROTECTION	IP20 IP20, IP40 with suitable enclosure
IMPULSE WITHSTAND CURRENT	Surge-proof 5 kA
NUMBER OF POLES	Two-pole

LEAKAGE CURRENT TYPE	A
TYPE	• Add-on residual current protection unit • FBSmV • Type S/A
SPECIAL FEATURES	Ambient temperature hint: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
APPLICATION	• Switchgear for industrial and advanced commercial applications • xEffect - Switchgear for industrial and advanced commercial applications
SENSITIVITY TYPE	AC and pulsating DC current sensitive
RATED FAULT CURRENT - MAX	0.1 A
RATED FAULT CURRENT - MIN	0.1 A
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	240 V
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	5 kA
VOLTAGE RATING - MAX	415 V
VOLTAGE RATING - MIN	240 V
WIDTH IN NUMBER OF MODULAR SPACINGS	4
TRIPPING TIME	Selective switch off 40 ms delayed - selective switch off
RATED SHORT-CIRCUIT	Same as connected FAZ up

STRENGTH	to max. 10 kA
POWER LOSS	3.1 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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