

Eaton 171178

Eaton Moeller series xEffect - FRCmM-125 Type A RCCB. Residual current circuit breaker (RCCB), 125A, 4p, 30mA, type G/A

Obecné specifikace

PRODUCT NAME	Eaton Moeller series xEffect - FRCmM-125 Type A RCCB
CATALOG NUMBER	171178
EAN	4015081676606
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.41 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 61008 ÖVE E 8601
MODEL CODE	FRCMM-125/4/003-G/A

Další informace

FEATURES

Residual current circuit breaker
Additional equipment possible

FITTED WITH:

Interlocking device

FUNCTIONS

Short-time delayed tripping

SPECIAL FEATURES

- Current test marks as per inscription
- Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 2.2% for every 1 °C

USED WITH

Residual current circuit breakers
FRCmM-125
Type G/A (ÖVE E 8601)

Program dodání

AMPERAGE RATING

125 A

APPLICATION

- Switchgear for industrial and advanced commercial applications
- xEffect - Switchgear for industrial and advanced commercial applications

FAULT CURRENT RATING

30 mA

IMPULSE WITHSTAND CURRENT

3 kA (8/20 µs) surge-proof

NUMBER OF POLES

Four-pole

RATED SHORT-CIRCUIT STRENGTH

10 kA with back-up fuse

SENSITIVITY TYPE

Pulse-current sensitive

TRIPPING TIME

Short time-delayed
10 ms delayed

TYPE

- FRCmM-125
- Residual current circuit breakers
- Type G/A (ÖVE E 8601)

Ověření návrhu podle ČSN EN 61439

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 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	Does not apply, since the

Ověření návrhu podle ČSN EN 61439 – technické údaje

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	22.5 W
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	125 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W

AGAINST ELECTRIC SHOCK	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.

Technical data - electrical

ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	80 A gG/gL
FREQUENCY RATING	50 Hz
LEAKAGE CURRENT TYPE	A
LIFESPAN, ELECTRICAL	4000 operations
POLLUTION DEGREE	2
RATED FAULT CURRENT - MAX	0.03 A
RATED FAULT CURRENT - MIN	0.03 A
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	415 V
RATED RESIDUAL MAKING AND BREAKING CAPACITY	1250 A
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
SHORT-CIRCUIT RATING	125 A (max. admissible back-up fuse)
SURGE CURRENT CAPACITY	3 kA
TEST CIRCUIT RANGE	185 V AC - 440 V AC
VOLTAGE RATING (IEC/EN 60947-2)	240 V AC / 415 V AC

Technical data - mechanical

BUILT-IN DEPTH	70.5 mm
BUILT-IN WIDTH (NUMBER OF UNITS)	70 mm (4 SU)
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	50 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm ²
CONTACT POSITION INDICATOR COLOR	Red / green
DEGREE OF PROTECTION	IP20, IP40 with suitable enclosure IP20
FRAME	45 mm
LIFESPAN, MECHANICAL	10000 operations
MOUNTING METHOD	Quick attachment for DIN-rail EN 50022 DIN rail
MOUNTING POSITION	As required
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-25 °C
STATUS INDICATION	Toggle-center position
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm ² - 16 mm ² (2x) 1.5 mm ² - 50 mm ²
TERMINAL CAPACITY (STRANDED CABLE)	1.5 mm ² - 5 mm ² 1.5 mm ² - 16 mm ² (2x)
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND	Twin-purpose terminals

BOTTOM)

WIDTH IN NUMBER OF
MODULAR SPACINGS 4

Zdroje

DECLARATIONS OF CONFORMITY	eaton-rccb-declaration-of-conformity-eu250057en.pdf eaton-rccb-declaration-of-conformity-uk251420en.pdf
INSTALAČNÍ NÁVODY	eaton-mcb-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	eaton-rccb-mcad-drawings-dfs-4.dwg eaton-residual-current-circuit-breakers-3d-models-dfs-4.stp
SCHÉMATA ZAPOJENÍ	eaton-frcm-wiring-diagram.jpg
VÝKRESY	eaton-frcm-dimensions.jpg eaton-circuit-breaker-xeffect-frcmm-na-rccb-dimensions.eps

NÁZEV PROJEKTU:

ČÍSLO PROJEKTU:

PŘIPRAVIL:

DATUM:



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