Eaton 170624

Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 13A, 30mA, MCB trip type C , 1-phase+N, RCCB trip type: AC, G

| PRODUCT NAME | Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection |
|-------------------------|--|
| CATALOG NUMBER | 170624 |
| PRODUCT LENGTH/DEPTH | 80 mm |
| PRODUCT HEIGHT | 75 mm |
| PRODUCT WIDTH | 35 mm |
| PRODUCT WEIGHT | 0.198 kg |
| COMPLIANCES | CE Marked RoHS conform |
| CERTIFICATIONS | CE EN45545-2 IEC 61373 |



| AMPERAGE RATING | 13 A |
|--|---|
| VOLTAGE RATING | 240 V - 240 V |
| SURGE CURRENT CAPACITY | 3 kA |
| VOLTAGE TYPE | AC |
| WIDTH IN NUMBER OF MODULAR SPACINGS | 2 |
| FEATURES | Concurrently switching N- neutral Anti-nuisance tripping version |
| 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. |

xEffect_FR_RCCB_FAZ%20MCB.pdf

eaton-xeffect-frbm6-rcbo-catalogca003015en-en-us.pdf

eaton-xeffect-frbm6mdimensions.jpg

<u>eaton-xeffect-frbm6m-wiring-</u> <u>diagram.jpg</u>

eaton-xeffect-frbm6m-3ddrawing-006.jpg

eaton-xeffect-frbm6mcharacteristic-curve.jpg

| Does not apply, since the entire switchgear needs to |
|--|
| be evaluated. |
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| 40 °C |
| -25 °C |
| FRBmM |
| 13 A |
| 10, 30, 100, 300 MilliAmpere |
| 13 A |
| 10 kA |
| |
| |

| TRIPPING CHARACTERISTIC | С |
|---|---|
| BUILT-IN DEPTH | 75.5 mm |
| CURRENT LIMITING CLASS | 3 |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2) | 15 kA |
| AMBIENT OPERATING TEMPERATURE - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| FAULT CURRENT RATING | 0.03 A |
| HEAT DISSIPATION CAPACITY | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT | 0 W |
| NUMBER OF POLES (PROTECTED) | 1 |
| NUMBER OF POLES (TOTAL) | 2 |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 240 V |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) | 15 kA |
| RATED SWITCHING CAPACITY | 10 kA |
| BASIC FUNCTION | Combined RCD/MCB devices |
| MOUNTING METHOD | DIN rail |
| EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT | 3.4 W |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 4 kV |
| DEGREE OF PROTECTION | IP20 |
| OPERATING AMBIENT TEMPERATURE HINT | Keep in mind the derating at temperatures higher than 40 °C |
| TRIPPING | Short time-delayed |
| OVERVOLTAGE CATEGORY | 111 |
| POLLUTION DEGREE | 2 |
| IMPULSE WITHSTAND | Surge-proof, 3 kA |
| | |

| CURRENT | |
|--|--|
| LEAKAGE CURRENT TYPE | AC |
| RELEASE CHARACTERISTIC | С |
| SENSITIVITY TYPE | AC current sensitive |
| FREQUENCY RATING | 50 Hz |
| RATED INSULATION VOLTAGE (UI) | 500 V |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN | 1 mm² |
| CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX | 25 mm² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN | 1 mm² |
| CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX | 25 mm² |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009) | 10 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1) | 10 kA |
| NUMBER OF POLES | Single-pole + N |
| DISCONNECTION CHARACTERISTIC | Short-time delayed |
| ТҮРЕ | RCBO |
| APPLICATION | Switchgear for industrial and advanced commercial applications |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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