

**RCD/MCB, 6A, 300mA, miniature circuit-breaker trip curve: D, 1pole+N,
residual current circuit-breaker trip characteristic: A**

**Part no. FRBMM-D6/1N/03-A-RT
305194**

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|---|--|
| Product name | Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection |
| Part no. | FRBMM-D6/1N/03-A-RT |
| EAN | 9010238988866 |
| Product Length/Depth | 75.5 millimetre |
| Product height | 84.5 millimetre |
| Product width | 35.4 millimetre |
| Product weight | 0.202 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC 61373 EN45545-2 |
| Product Tradename | xEffect - FRBm6/M |
| Product Type | RCBO - Residual-current circuit breaker with overcurrent protection |
| Product Sub Type | None |
| Number of poles (protected) | 1 |
| Number of poles (total) | 2 |
| Release characteristic | D |
| Amperage Rating | 6 A |
| Rated current | 6 A |
| Fault current rating | 0.3 A |
| Voltage type | AC |
| Rated operational voltage (Ue) - max | 240 V |
| Rated insulation voltage (Ui) | 500 V |
| Rated impulse withstand voltage (Uimp) | 4 kV |
| Frequency rating | 50 Hz |
| Leakage current type | A |
| Rated switching capacity (IEC/EN 60947-2) | 15 kA |
| Rated short-circuit breaking capacity (EN 60947-2) | 15 kA |
| Rated short-circuit breaking capacity (EN 61009) | 10 kA |
| Rated short-circuit breaking capacity (EN 61009-1) | 10 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) | 15 kA |
| Surge current capacity | 0.25 kA |
| Disconnection characteristic | Undelayed |
| Pollution degree | 2 |
| Width in number of modular spacings | 2 |
| Built-in depth | 75.5 mm |
| Degree of protection | IP20 |
| Connectable conductor cross section (solid-core) - min | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | 25 mm ² |
| Ambient operating temperature - max | 40 °C |
| Ambient operating temperature - min | -25 °C |

Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])

| | | |
|--|-----------------|-----------|
| Number of poles (total) | | 2 |
| Number of protected poles | | 1 |
| Rated voltage | V | 240 |
| Rated insulation voltage U_i | V | 500 |
| Rated impulse withstand voltage U_{imp} | kV | 4 |
| Rated current | A | 6 |
| Rated fault current | A | 0.3 |
| Leakage current type | | A |
| Current limiting class | | 3 |
| Rated short-circuit breaking capacity according to EN 61009 | kA | 10 |
| Rated short-circuit breaking capacity according to IEC 60947-2 | kA | 15 |
| Rated short-circuit breaking capacity I_{cn} according to EN 61009-1 | kA | 10 |
| Disconnection characteristic | | Undelayed |
| Surge current capacity | kA | 0.25 |
| Voltage type | | AC |
| Frequency | | 50 Hz |
| Release characteristic | | D |
| Concurrently switching neutral conductor | | No |
| With interlocking device | | No |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Ambient temperature during operating | °C | -25 - 40 |
| Width in number of modular spacings | | 2 |
| Built-in depth | mm | 75.5 |
| Flush-mounted installation | | No |
| Anti-nuisance tripping version | | No |
| Degree of protection (IP) | | IP20 |
| Connectable conductor cross section solid-core | mm ² | 1 - 25 |
| Connectable conductor cross section multi-wired | mm ² | 1 - 25 |