

Part no. Article no.

Residual current circuit breaker (RCCB), 63A, 2p, 300mA, type S/F

FRCMM-63/2/03-S/F 187398



Similar to illustration

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|--|------|
| | |
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| | |

| 71.3 | | | |
|------------------------------|-----------------|----|-----------------------------------|
| Basic function | | | Residual current circuit breakers |
| Number of poles | | | 2 pole |
| Rated current | In | Α | 63 |
| Rated short-circuit strength | I _{cn} | kA | 10 with back-up fuse |
| Tripping | | Α | selective switch off |
| Product range | | | FRCmM |
| Sensitivity | | | Pulse-current sensitive |

Technical data

Electrical

| Lioution | | | |
|--|--------------------|----------|---------------------------------------|
| Types conform to | | | IEC/EN 62423 |
| Current test marks | | | As per inscription |
| Tripping | | Α | 40 ms delay - selective switch off |
| Rated operating voltage | Un | V AC | 240 |
| Rated frequency | f | Hz | 50 |
| Limit values of the operating voltage | | | |
| Test circuit | | V AC | 196 - 264 |
| Rated fault current | $I_{\Delta n}$ | mA | 300 |
| Sensitivity | | | Pulse-current sensitive |
| Enhanced sensitivity | | | Frequency mix (10 Hz, 50 Hz, 1000 Hz) |
| Rated insulation voltage | Ui | V | 440 |
| Rated impulse withstand voltage | U _{imp} | kV | 4 (1.2/50μs) |
| Rated short-circuit strength | I _{cn} | kA | 10 with back-up fuse |
| Impulse withstand current | | | 5 kA (8/20 μs) surge-proof |
| Max. admissible back-up fuse | | | |
| Short-circuit | gG/gL | Α | 63 |
| Overload | gG/gL | Α | 63 |
| Rated making and breaking capacity / Rated residual making and breaking capacity | $I_m/I_{\Delta m}$ | Α | 630 |
| lifespan | | | |
| Electrical | | | n ≧ 2000 |
| Mechanical | | Operatio | n≘ ₁₀₀₀₀ |
| Mechanical | | | |

Mechanical

| Standard front dimension | mm | 45 |
|--------------------------|-----------------|---|
| Device height | mm | 80 |
| Built-in width | mm | 35 (2TE) |
| Mounting | | Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 |
| Degree of Protection | | IP20 switches IP 40 enclosed |
| Terminals top and bottom | | Twin-purpose terminals |
| Terminal protection | | Busbar tag shroud to BGV A3, ÖVE-EN 6 |
| Terminal cross-section | | |
| Solid | mm^2 | 1.5 - 35 |
| Stranded | mm ² | 2 x 16 |

| Terminal cross-section | | M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) |
|--|-----|---|
| Tightening torque of fixing screws | N/m | 2 - 2.4 |
| Thickness of busbar material | mm | 0.8 - 2 |
| Admissible ambient temperature range | °C | -25 - +40 |
| Permissible storage and transport temperatures | °C | -35 - +60 |
| Climatic proofing | | according to IEC/EN 61008 |
| Mounting position | | As required |
| Contact position indicator | | red / green |
| Trip indication | | white / blue |

Design verification as per IEC/EN 61439

| boolgii vormoudion do por 120/211 or 100 | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | Α | 63 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 13.5 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 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 Insulation properties | | | |
| 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. |
| | | | |

Technical data ETIM 6.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB)

| (ecl@ss8.1-27-14-22-01 [AAB906011]) | | | |
|-------------------------------------|---|-----|--|
| Number of poles | | 2 | |
| Nominal rated voltage | V | 240 | |
| Nominal rated current | Α | 63 | |
| Rated fault current | А | 0.3 | |

| Mounting method | | DIN rail |
|--|----|----------|
| Leakage current type | | |
| Selective protection | | Yes |
| Short-circuit breaking capacity (Icw) | kA | 10 |
| Surge current capacity | kA | 5 |
| Frequency | | 50 Hz |
| Additional equipment possible | | Yes |
| Degree of protection (IP) | | IP20 |
| Construction size (in accordance with DIN 43880) | | 1 |
| Width in number of modular spacings | | 2 |
| Built-in depth | mm | 70.5 |
| Short-time delayed tripping | | No |