



V8 SERIES

Residual Current Circuit Breakers



Products Overview of Residual Circuit Breakers

| | | |
|---|--|----------|
| Product name | RCCB | |
| Product range | V8 | |
| Product picture |  | |
| Standard | IEC/EN 61008-1 | |
| Number of poles | 2P(1P+N) | 4P(3P+N) |
| Electrical characteristics | | |
| Rated current(A) In | 25~64 | |
| Rated voltage(V) | AC 240 | AC 415 |
| Rated residual current(mA) | 30 | |
| Rated conditional short-circuit current(kA) | 10 | |
| Tripping curve | ----- | |
| Residual current operating characteristic | A | |




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|--|---|
| Standard | EN/IEC61008-1 |
| Rated conditional short-circuit current(kA) | 10 |
| Rated current(A),I _n | 25, 40, 63 |
| Number of poles | 2P(1P+N),4P(3P+N) |
| Rated sensitivity currents(mA),I _{Δn} | 30 |
| Rated residual non-operating current | 0.5XI _{Δn} |
| Rated impulse withstand voltage U _{imp} (kV) | 4 |
| Rated voltage(V) | 2pole AC 240 |
| | 4pole AC 415 |
| Ambient temperature (°C) | -25~+40,Max.95%humidity |
| Residual current off-time at I _{Δn} | ≤0.1s |
| Rated residual current making & breaking capacity, I _{Δm} | 500A for I _n =25A,40A 630A for I _n =63A |
| Type of trip | Electro-magnetic release |
| Terminal capacity | Cables up to 25mm ² |
| Protection degree | IP20 |
| Installation | 35mm DIN rail |
| Certification |  |



V8-2-40-030



V8-4-40-030

| V8 Series | | RCCB | | |
|---|------------------|----------------|--|--------------|
| | Rated current(A) | $I_{\Delta n}$ | Type A  | Packing unit |
|  V8-2 | 25 | 30mA | V8-2-25-030 | 6 |
| | 40 | | V8-2-40-030 | |
| | 60 | | V8-2-63-030 | |
|  V8-4 | 25 | 30mA | V8-4-25-030 | 3 |
| | 40 | | V8-4-40-030 | |
| | 60 | | V8-4-63-030 | |

Life

| I_n | Operating cycles | | Operating frequency (operations/h) |
|-------|--------------------------|---------------------------|---------------------------------------|
| | On-load operating cycles | Off-load operating cycles | |
| 25 | 2000 | 2000 | 240 |
| 40,63 | 2000 | 1000 | 120 |

Breaking time of residual current

| Max.breaking time | | | | | |
|-------------------|--------------------|----------------|------------------|------------------|--------|
| I_n (A) | $I_{\Delta n}$ (A) | $I_{\Delta n}$ | $2 I_{\Delta n}$ | $5 I_{\Delta n}$ | 5-500A |
| 25,40,63 | 0.03 | 0.1s | 0.08s | 0.04s | 0.04s |

Power dissipation per pole

| Rated current I_n (A) | Max power dissipation per pole (W) |
|-------------------------|------------------------------------|
| 25 | 4,5 |
| 40 | 7,5 |
| 63 | 13 |

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RCCB

Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

| Rated current I_n (A) | Cross section area s (mm ²) | Tightening torque (N.m) |
|-------------------------|---|-------------------------|
| 25 | 4 | 2.5 |
| 40 | 10 | |
| 63 | 16 | |

Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 standards were considered. Important features are:

Up to date design

User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

Additional colour display of main contacts position (red: contacts closed, green: contacts open)

Overall and mounting dimensions

