

Residual Current Circuit Breaker with Overload Protection (RCBO)

Features

- Combines residual current and overcurrent protection in one device
- 6A-32A rated current with B and C curve options
- 30 mA residual current sensitivity for personal protection
- Compact, modular design for easy panel installation
- 10 kA short-circuit breaking capacity with durable thermoplastic housing

RS PRO Residual Current Circuit Breaker with Overload Protection (RCBO)

RS Stock No.: 0756200



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Residual Current Circuit Breaker with Overload Protection (RCBO)



Product Description

RS PRO RCBOs

RS PRO RCBO units combine overcurrent and residual current protection in a single compact device, ensuring maximum safety for low-voltage installations. Manufactured in compliance with IEC/EN 61009-1, they offer dependable performance for residential, commercial and industrial environments.

RCBOs provide simultaneous protection against earth leakage faults (30 mA) and overcurrent/short-circuit conditions. Their compact design and high breaking capacity (10 kA) help optimize panel space while maintaining enhanced electrical safety.

1. Integrated Protection Functions

- *Residual current protection (A Type). All RS PRO RCBO RSKO range is manufactured as Type A, detecting both sinusoidal AC and pulsating DC residual currents. This ensures safe protection against leakage currents caused by modern electronic devices, distinguishing them from standard AC type devices.*
- *Overload and short-circuit protection*
- *Dual-function safety in a single device*
- *Rated current options: 6A, 10A, 16A, 20A, 25A, 32A*
- *Sensitivity Current: 30 mA*

2. Structural and Design Advantages

- *Available in 1-pole with neutral cable and 2-pole configurations*
- *Space-saving compact housing for panel installations*
- *High-durability thermoplastic body*
- *Suitable for horizontal or vertical mounting*

3. Application Areas

- *Residential and commercial distribution boards*
- *Industrial power distribution systems*
- *Lighting and socket circuits*
- *Areas requiring enhanced earth-leakage sensitivity*
- *Offices, shopping malls, hospitals, and infrastructure projects*

Residual Current Circuit Breaker with Overload Protection (RCBO)

General Specifications

| | |
|--------------------------------------------|------------------------------------------------------------------|
| Type | Residual Current Circuit Breaker with Overload Protection (RCBO) |
| Number of Poles | 1P+N (Neutral Cable) |
| Brand | RS PRO |
| Range | RSKO |
| Series | RSK01 |
| Applications | Personal Protection (30mA) |
| Trip Indicator | Yes |
| Mounting Style | DIN-Rail (35mm) |
| Operating Characteristic by Current Type | Type A |
| Operating Characteristic by Operating Time | Instantaneous Type (non-selective) |
| Operating Environment | -25/60 °C |

Mechanical Specifications

| | | |
|-----------------------------|-----------------|--------------|
| Dimensions (HxWxD) | mm | 18 x 92 x 77 |
| Net Weight | | 155g |
| Min-Max Connection Sections | mm ² | 1-10 |
| Min-Max Tightening Torque | Nm | 1-2 |

Electrical Specifications

| | | |
|-----------------------------------------------------|----|--------|
| Rated Current - In | A | 25 |
| Nominal Residual Current | mA | 30 |
| Rated Operating Voltage - Ue (50-60Hz) | V | 230 |
| Rated Insulation Voltage - Ui (50-60Hz) | V | 500 |
| Rated Impulse Withstand Voltage - Uimp | kV | 4 |
| Rated Short Circuit Breaking Capacity | kA | 10 |
| Protection Characteristics (Instantaneous Tripping) | | C |
| Mechanical Operations | | 20,000 |
| Electrical Operations | | 5,000 |

Protection Category

| | |
|-----------|----|
| IP Rating | 20 |
|-----------|----|

Residual Current Circuit Breaker with Overload Protection (RCBO)

Classification

| | |
|------------------|----------|
| HS Code | 85363030 |
| UNSPSC (Version) | 39121614 |

Approvals

| | |
|----------------------------------------------------|-----------------------|
| Declarations | RoHS, REACH, LVD, EMC |
| Compliance | IEC/EN 61009-1 |
| Type Tested at ISO/IEC 17025 Accredited Laboratory | Yes |

Similar Products

| Stock No. | Brand | Product Name | Rated Current - In (A) | Product Width (mm) | Protection Characteristics (Instantaneous Tripping) |
|-----------|--------|--------------|------------------------|--------------------|-----------------------------------------------------|
| 0756189 | RS PRO | RSK01 | 6 | 18 | B |
| 0756190 | RS PRO | RSK01 | 10 | 18 | B |
| 0756192 | RS PRO | RSK01 | 16 | 18 | B |
| 0756193 | RS PRO | RSK01 | 20 | 18 | B |
| 0756194 | RS PRO | RSK01 | 25 | 18 | B |
| 0756195 | RS PRO | RSK01 | 32 | 18 | B |
| 0756196 | RS PRO | RSK01 | 6 | 18 | C |
| 0756197 | RS PRO | RSK01 | 10 | 18 | C |
| 0756198 | RS PRO | RSK01 | 16 | 18 | C |
| 0756199 | RS PRO | RSK01 | 20 | 18 | C |
| 0756201 | RS PRO | RSK01 | 32 | 18 | C |
| 0756202 | RS PRO | RSK02 | 6 | 36 | B |
| 0756203 | RS PRO | RSK02 | 10 | 36 | B |
| 0756204 | RS PRO | RSK02 | 16 | 36 | B |
| 0756205 | RS PRO | RSK02 | 20 | 36 | B |
| 0756206 | RS PRO | RSK02 | 25 | 36 | B |
| 0756207 | RS PRO | RSK02 | 32 | 36 | B |
| 0756209 | RS PRO | RSK02 | 40 | 36 | B |
| 0756210 | RS PRO | RSK02 | 6 | 36 | C |
| 0756211 | RS PRO | RSK02 | 10 | 36 | C |

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| | | | | | |
|---------|--------|-------|----|----|---|
| 0756212 | RS PRO | RSK02 | 16 | 36 | C |
| 0756213 | RS PRO | RSK02 | 20 | 36 | C |
| 0756215 | RS PRO | RSK02 | 25 | 36 | C |
| 0756216 | RS PRO | RSK02 | 32 | 36 | C |
| 0756217 | RS PRO | RSK02 | 40 | 36 | C |

Connection Diagrams / Assembly Diagrams / Illustrations / Accessories

