

Features

- Type AC residual current detection ensures rapid disconnection
- 30 mA / 300 mA sensitivity for personal and fire protection
- Compact design suitable for 2P or 4P installation
- High rated conditional short circuit current of 10 kA for reliable safety
- Thermoplastic housing for durability and thermal stability

RS PRO Residual Current Circuit Breakers (RCCB)

RS Stock No.: 0755727



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.

Product Description

RS PRO RCCBs

RS PRO's Residual Current Circuit Breakers (RCCBs) provide essential protection against electric shock, earth leakage faults, and fire risks in low-voltage electrical installations. Designed and manufactured in compliance with IEC/EN 61008-1, they ensure safe and reliable operation across residential, commercial, and industrial environments. RCCBs detect residual current imbalances and disconnect the circuit within milliseconds, offering an effective safety layer. Compact construction, wide rating options, and multiple sensitivity levels, they deliver dependable protection for modern electrical systems.

1. Protection Mechanisms

Residual Current Protection – AC Type:

- *Detects sinusoidal AC residual currents*
- *Provides fast tripping against indirect contact hazards and earth leakage faults*

Sensitivity Options:

- *30 mA: Personal protection against electric shock*
- *300 mA: Enhanced fire protection for leakage currents*

Available Rated Currents:

- *25 A, 40 A, 63 A*

Pole Configurations:

- *2P (single-phase systems)*
- *4P (three-phase systems)*

2. Design Advantages

- *Compact and modular design for distribution boards*
- *Front connection terminals for easy wiring*
- *Suitable for both horizontal and vertical mounting*
- *Clearly visible ON/OFF indication*
- *Test button for periodic functionality checks*
- *High mechanical and electrical endurance*

3. Application Areas

- *Residential and commercial electrical installations*
- *Industrial distribution systems*
- *Sub-distribution boards*
- *EV charging infrastructure (when combined with appropriate upstream protection)*
- *Building automation and control systems*
- *Lighting and socket circuits*
- *Fire protection applications (300 mA)*

General Specifications

Type	Residual Current Circuit Breakers (RCCB)
Number of Poles	4
Brand	RS PRO
Range	RSK
Series	RSK4
Applications	Fire Protection (300mA)
Trip Indicator	Yes
Mounting Style	DIN-Rail (35mm)
Operating Characteristic by Current Type	Type AC
Operating Characteristic by Operating Time	Instantaneous type (non-selective)

Mechanical Specifications

Dimensions (HxWxD)	mm	72 x 81 x 73
Net Weight		350g
Min-Max Connection Sections	mm ²	2.5-25
Min-Max Tightening Torque	Nm	2-3

Electrical Specifications

Rated Current - I _n	A	40
Rated Residual Operating Current - I _{Δn}	mA	300
Rated Operating Voltage - U _e (50-60Hz)	V	400
Rated Insulation Voltage - U _i (50-60Hz)	V	500
Rated Impulse Withstand Voltage - U _{imp}	kV	4
Rated making and breaking capacity (I _m /I _{Δm})	A	500
Rated Conditional Short-Circuit Current (I _{nc} /I _{Δc})	kA	10
Mechanical Operations		10,000
Electrical Operations		4,000

Protection Category

IP Rating	20
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Classification

HS Code	85363030
UNSPSC (Version)	39121614

Approvals

Declarations	RoHS, REACH, LVD, EMC
Compliance	IEC/EN 61008-1
Type Tested at ISO/IEC 17025 Accredited Laboratory	Yes

Similar Products

Stock No.	Brand	Product Name	Rated Current – In (A)	Rated Residual Operating Current – I Δ n (mA)	Number of Poles
0755717	RS PRO	RSK2	25	30	2
0755718	RS PRO	RSK2	25	300	2
0755719	RS PRO	RSK2	40	30	2
0755720	RS PRO	RSK2	40	300	2
0755721	RS PRO	RSK2	63	30	2
0755723	RS PRO	RSK2	63	300	2
0755724	RS PRO	RSK4	25	30	4
0755725	RS PRO	RSK4	25	300	4
0755726	RS PRO	RSK4	40	30	4
0755728	RS PRO	RSK4	63	30	4
0755729	RS PRO	RSK4	63	300	4

Connection Diagrams / Assembly Diagrams / Illustrations / Accessories

