

# 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.: 0756199



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 <sup>2</sup>	1-10
Min-Max Tightening Torque	Nm	1-2

## Electrical Specifications

Rated Current - In	A	20
Nominal Residual Current	mA	30
Rated Operating Voltage - U <sub>e</sub> (50-60Hz)	V	230
Rated Insulation Voltage - U <sub>i</sub> (50-60Hz)	V	500
Rated Impulse Withstand Voltage - U <sub>imp</sub>	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
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# 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
0756200	RS PRO	RSK01	25	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

# Residual Current Circuit Breaker with Overload Protection (RCBO)



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

