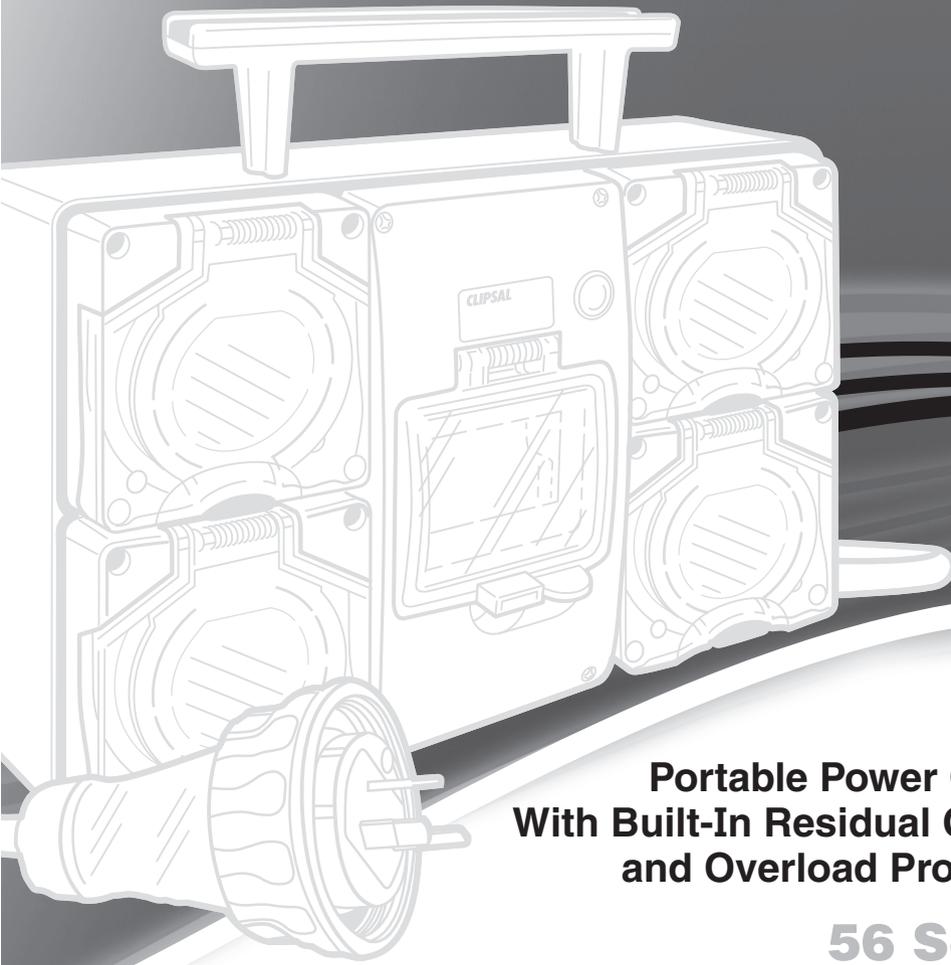


# **CLIPSAL**<sup>®</sup>

by **Schneider Electric**



**Portable Power Outlets  
With Built-In Residual Current  
and Overload Protection**

## 56 Series



Users Guide

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## 1.0 Introduction

Congratulations, your purchase of a Clipsal 56 Series RCD/MCB Protected Portable Power Outlet has been a wise investment in electrical safety. The units offer unsurpassed protection against electric shock and overload in a wide range of applications.

The range has been specifically designed to protect both people and property from damage or injury in case of an electrical fault, and also incorporates additional safety features including protection against electrical overload.

Units comprise up to four double pole, separately switched shuttered socket outlets, mounted in a high impact, UV and chemical resistant, durable plastic housing. The enclosure is both dust and splash proof, with convenient carry handle, and is fitted with a 2.0m heavy-duty flexible lead.

Electrical protection is provided by means of a highly reliable electronic combination RCD/MCB module.

Built tough for use by professional tradespeople, the unit is ideal for use either in the field or in the workshop, and is fully Class H compliant, being certified as approved for use on construction sites (AS/NZS 3012 Portable Socket Outlet Assemblies (PSOA)).

The outlet offers superior protection and peace of mind for the home handyman.

## 2.0 Product Selection Guide

Ruggedly constructed, these portable units feature an easy to carry handle, a hanging facility for builders' poles and two metres of heavy-duty flexible cord. They are also coloured with high-visible resistant orange that is constructed of UV and chemical resistant material.

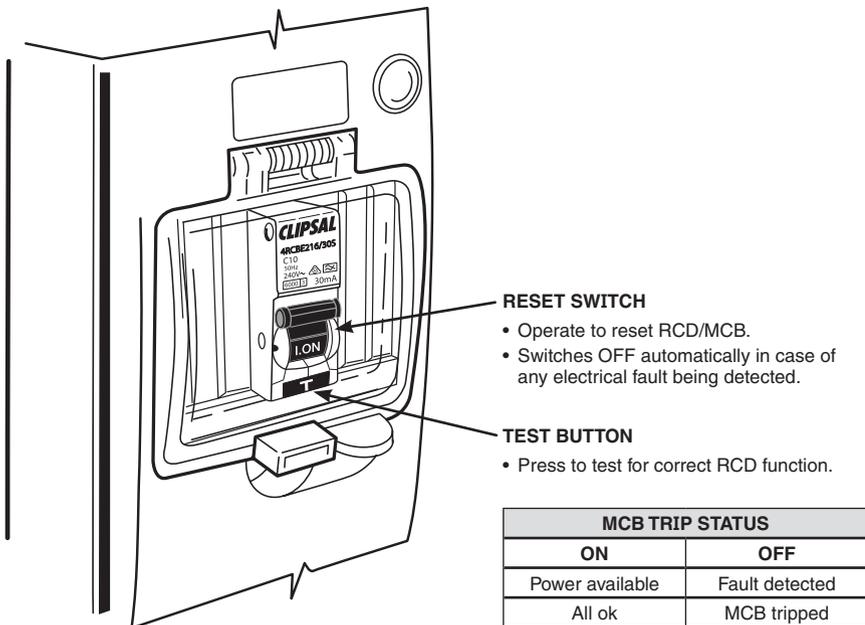
Portable RCD/MCB Protected Combinations and Protected Outlets - IP66									
Catalogue Number	No. of Phases	$I_{the}$ (Amp)	$U_i/U_o$ (Volt)	No. of Sockets QTY	Protection	MCB Current Rating	O/A Dims. (H) x (W) x (D)	Socket Type	Plug on End of Flex.
56C310EL2P	1	10A	240V	2	30mA RCD	10A	243x294x105	3 Flat Pin	56P310
56C315ELP	1	15A	240V	1	30mA RCD	16A	243x195x105	3 Flat Pin	56P315
56SO4ELP10	1	10A	240V	4	30mA RCD	10A	243x294x105	3 Flat Pin, Auto Switch	56P310
56SO4ELP15	1	15A	240V	4	30mA RCD	16A	243x294x105	3 Flat Pin, Auto Switch	56P315

## 3.0 Key Features

- Portable power outlet with residual current and overload protection
- Built-in electronic RCD/MCB combo device
- Highly robust electronics
  - resistant to drop / shock / vibration
- Excellent electrical noise immunity
  - eliminates nuisance tripping
- Class H compliant device, suitable for use on construction sites
- Separately switched, double pole shuttered socket outlets
- Impact, UV and chemical resistant orange case to ensure survival in harsh environments
- Press to test button
- Clear cover flap protects RCD/MCB
- Convenient carry handle
- 2.0 metre heavy duty cord assembly
- IP66 rated.

### 3.1 The Clipsal Advantage

All Clipsal 56 Series Protected Portable Power Outlets come complete with a high quality combination RCD/MCB. Clipsal units are completely electronically controlled, providing greater reliability than other units which use an electromechanical trip mechanism. In addition, Clipsal Electronic RCDs are highly immune to electrical interference, and unlike their electromechanical counterparts, are much more robust, offering excellent resistance to false tripping owing to drop, shock or vibration when in use.



**Electronic RCD/MCB Combo Device**

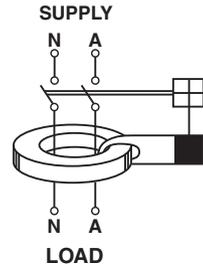
## 4.0 How It Works

### 4.1 What is a Residual Current Device (RCD)?

Residual Current Devices (RCDs) guard against electrocution, cutting power in an instant should the user come into contact with live parts.

### 4.2 How Do They Work?

Residual Current Devices (sometimes called “Earth Leakage Breakers” or “Safety Switches”) constantly monitor and compare the current flow in both the Active and Neutral conductors of an electrical installation. Should the current flow become sufficiently unbalanced it indicates that some of the current in the Active wire is leaking to earth and not returning through the Neutral wire. If this occurs the unit detects the imbalance and automatically cuts the electrical supply.



A Residual Current Device will instantaneously cut off the power when this type of fault occurs, virtually eliminating the risk of electrocution from Earth leakage faults.

A Residual Current Device can also protect portable appliances and power tools against severe electrical damage should a short circuit develop in the unit between the electrical components and the outer frame. This protection can save the appliance from requiring expensive repairs.

Note that an RCD can protect against faults to Earth through the body, but not against Active to Neutral faults.

### 4.3 What is a Miniature Circuit Breaker (MCB)?

Miniature Circuit Breakers (MCBs) protect property from damage in case of electrical overload. This can occur when too many high powered appliances are connected to the unit. Should the connected load exceed the maximum current rating, then there is danger of overload, damage to equipment, or even fire. The Miniature Circuit Breaker will detect the condition and disconnect the power to the appliances, preventing dangerous situations from occurring.

The MCB ensures that the total load connected can not exceed the total current rating of the device (typically 10A. 15A models also available – refer to product selection guide).

## 5.0 Unit Operating Instructions

<b>STEP 1</b>	Uncoil the lead fully from around the base of the unit.
<b>STEP 2</b>	Plug the unit into a convenient mains socket outlet and turn on the switch.
<b>STEP 3</b>	Lift the clear flap on the side of the unit and switch the unit ON, by operating the toggle switch.
<b>STEP 4</b>	<b>TEST THE RCD</b> before each use by depressing the test button. This will immediately cause the unit to trip, confirming that the RCD circuit is operational. Should the unit fail to switch OFF after the Test button is depressed, then the unit may be faulty and should not be used. It should be returned to your nearest Clipsal by Schneider Electric office for service or repair.
<b>STEP 5</b>	<b>RESET THE RCD</b> by operating the toggle switch to the ON position.

Your Clipsal 56 Series Portable Power Outlet is now ready for operation. Simply plug in your appliance or tool, and use as normal.

## 5.1 Important Note:

- Electricity can be dangerous – the use of this product cannot be regarded as a substitute for basic electrical safety precautions.
- If the unit continually trips or if it fails to trip when tested in accordance with instructions, immediately seek advice from your electrical contractor or Clipsal.
- Should the device “trip” the supply at any time during operation, you may well be operating a faulty appliance. You should have your appliance checked by a licenced electrician. Where multiple outlets are used, “nuisance” tripping may occur due to the accumulation of Earth-leakage currents in a number of appliances. Each appliance should be checked by a licenced electrician before proceeding.
- Unplug equipment before any inspection or repair of that equipment is attempted. There are no user-servicable parts inside. Return to place of purchase for service/replacement.
- A Portable Residual Current Device should be plugged into a fixed power outlet/powerpoint only. Never plug the unit into the socket end of an extension lead. Plug directly into a powerpoint, then plug in any extension leads into protected outlets of the portable device.
- This product is designed for use in dry conditions. Storage and use in adverse conditions may affect performance. Do not use in areas where the product is exposed to rain or the ingress of any liquid. Never immerse. Do not allow to come into contact with petroleum products, alkaline detergents or cleaners.

## 6.0 Troubleshooting

Problem	Possible Cause	Suggested Remedy
No power available at outlets	Unit not plugged in, or not switched on at the powerpoint.	Plug in and switch on.
	RCD tripped.	Reset the RCD/MCB by setting the toggle lever under the clear flap to the ON position.
	MCB tripped.	Reset the RCD/MCB by setting the toggle lever under the clear flap to the ON position.
RCD doesn't trip when tested	RCD malfunction.	Return to place of purchase for service/replacement. Proof of purchase may be requested.
RCD continually trips	One or more faulty / unsafe appliance(s) connected.	- Disconnect all connected appliances and confirm correct RCD operation by depressing the Test button. The RCD should operate normally. - Isolate the offending appliance(s) and/or consult a licenced electrician to service the faulty item(s). Do not continue to use the suspect appliance(s).
	Excessive Earth leakage current resulting from an accumulation of minor leakages from a number of appliances.	Reduce total Earth leakage current by disconnecting one or more offending appliances.
	RCD/MCB malfunction.	Do not use the device. Return to place of purchase for service/replacement.

## 7.0 Technical Specifications

Portable 56 Series General Specifications	
Operating Voltage	240V a.c.
Operating Frequency	50Hz
Operating Temperature Range	-10° to 55°C
Protection Device	Combination RCD/MCB
Protection Type	Electronic
Tripping Time at Rated RCD Current	Within 300ms (15mA to 30mA)
Rated nominal breaking capacity	6kA
MCB Tripping Characteristic	C Curve
Socket Outlet Type	Double Pole Socket Outlets
Lead Type	Heavy Duty Flex
Lead Length	2.0m
International Protection Rating	IP66
Device Class	CLASS H - Suitable for use in construction sites
Compliant Standards	AS/NZS3100: Approval and Test Specification — General requirements for electrical equipment
	AS/NZS3190: Approval and Test Specification — Residual Current Devices (Current Operated Earth Leakage Devices)
	AS/NZS3105: Approval and Test Specification — Electric portable outlet device
	AS/NZS3112: Approval and Test Specification — plugs and socket outlet
	AS/NZS3012: Electrical Installations — Construction and demolition sites (Class H Portable Socket Outlet Assembly (PSOA))
Please refer to Product Selection Guide for additional specifications	
Specifications typical @ 240V a.c., 25°C	
No user serviceable parts inside	

## 8.0 Warranty

1. The benefits conferred herein are in addition to, and in no way shall be deemed to derogate; either expressly or by implication, any or all other rights and remedies in respect to the Clipsal by Schneider Electric product, which the consumer has under the Commonwealth Competition and Consumer Act or any other similar State or Territory Laws.
2. The warrantor is Schneider Electric (Australia) Pty Ltd of 33 - 37 Port Wakefield Road, Gepps Cross, South Australia 5094. With registered offices in all Australian States.
3. This Clipsal by Schneider Electric product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of purchase.
4. Schneider Electric (Australia) Pty Ltd reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.
5. This warranty is expressly subject to the Clipsal by Schneider Electric product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.
6. All costs of a claim shall be met by Schneider Electric (Australia) Pty Ltd, however, should the product that is the subject of the claim be found to be in good working order all such costs shall be met by the claimant.
7. When making a claim the consumer shall forward the Clipsal by Schneider Electric product to the nearest office of Clipsal by Schneider Electric with adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.

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**Schneider Electric (Australia) Pty Ltd**

Contact us: [clipsal.com/feedback](http://clipsal.com/feedback)

National Customer Care Enquiries:

**Tel 1300 2025 25**

**Fax 1300 2025 56**

**clipsal.com**

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