



Victoria Government Gazette

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Electricity Safety Act 1998 Section 63(1)

PROHIBITION OF SUPPLY OF ELECTRICAL EQUIPMENT (RCBO Prohibition Notice 2020)

I, Marnie Williams, the Director of Energy Safety, under section 63(1) of the **Electricity Safety Act 1998** prohibit the supply of the electrical equipment specified in this notice effective 2 July 2020.

Prohibited Electrical Equipment

- (1) Subject to paragraph (2), the supply of all Compact RCBOs is prohibited unless the brand and model of RCBO passes the additional testing requirements and is listed on the Energy Safe Victoria website as having complied with the additional verification requirements.
- (2) This prohibition does not apply to the supply of a Compact RCBO that is fitted within a PRCD.

Definitions

In this notice:

- (a) **additional testing requirements** means the test requirements set out in the Energy Safe Victoria document entitled 'RCBO prohibition – Additional testing and verification requirements for RCBOs' dated 1 July 2019 and set out in the Appendix to this notice;
- (b) **additional verification requirements** means the verification requirements set out in the Energy Safe Victoria document entitled 'RCBO prohibition – Additional testing and verification requirements for RCBOs' dated 1 July 2019 and set out in the Appendix to this notice;
- (c) **AS/NZS 3190** means AS/NZS 3190, Australian/New Zealand Standard 'Approval and test specification – Residual current devices (current-operated earth-leakage devices)', as published or amended from time to time;
- (d) **AS/NZS 4417.2** means AS/NZS 4417.2, Australian/New Zealand Standard 'Regulatory compliance mark for electrical and electronic equipment Part 2: Specific requirements for particular regulatory requirements', as published or amended from time to time;
- (e) **Compact RCBO** means a DIN Rail mountable RCD with integral overcurrent protection that either –
 - (a) meets both of the following criteria, namely:
 - (i) it is less than 110 mm in length (excluding any external clips);
 - AND**
 - (ii) it has a rated short circuit breaking capacity of less than 10 kilo amps;
- OR**
- (b) is marked or marketed as being for household or residential use;
- (f) **Energy Safe Victoria website** means the internet website with the internet address www.esv.vic.gov.au;
- (g) **PRCD** means a portable residual current device that complies with the requirements of AS/NZS 3190;
- (h) **RCD** has the same meaning as 'residual current device' in Annex B to AS/NZS 4417.2.

Expiry

This prohibition expires on 30 June 2030 unless revoked earlier.

Dated 29 June 2020

MARNIE WILLIAMS
Director of Energy Safety

SPECIAL

APPENDIX**RCBO prohibition**

Additional testing and verification requirements for RCBOs

1 July 2019

RCBO

RCBOs are classified as level 3 in-scope electrical equipment and are required to be certified and registered before they are offered for supply. In addition to these requirements the following tests shall also be conducted and the results verified.

Test setup

In the circuit diagram below resistor values R1 and R2 is 0.5 ohm each and need to be of the appropriate power rating so that they are not damaged during the testing. The variable resistor R value range is selected so that adequate residual current is passed through the circuit to trip the RCBO under test.

Test method

1. The RCBO in the closed position is to be set up as per the circuit diagram below to have 240V applied on both L and N terminals. The link between the terminals shall be as short as practicable. The variable resistor R value is reduced so that adequate residual current is passed through the circuit until the RCBO trips. This current is applied for 60 seconds.
2. If the RCBO can be reset, the RCBO is setup as per test (1), however the variable resistor is disconnected from the circuit. The RCBO is closed and the test button is pressed and released.
3. If the RCBO can be reset, step 2 is repeated but the test button is held down for 10 seconds.
4. If the RCBO trips then step 2 is repeated.

Verification requirements

After these tests a verification of the operating characteristics under residual current conditions of the RCBOs is to be performed by the test set out in clause 9.9.1.2 a), of AS/NZS 61009:2015. The RCBO is required to comply with clause 9.9.1.2 a), of AS/NZS 61009:2015, any damage to the test button or its circuits is ignored.

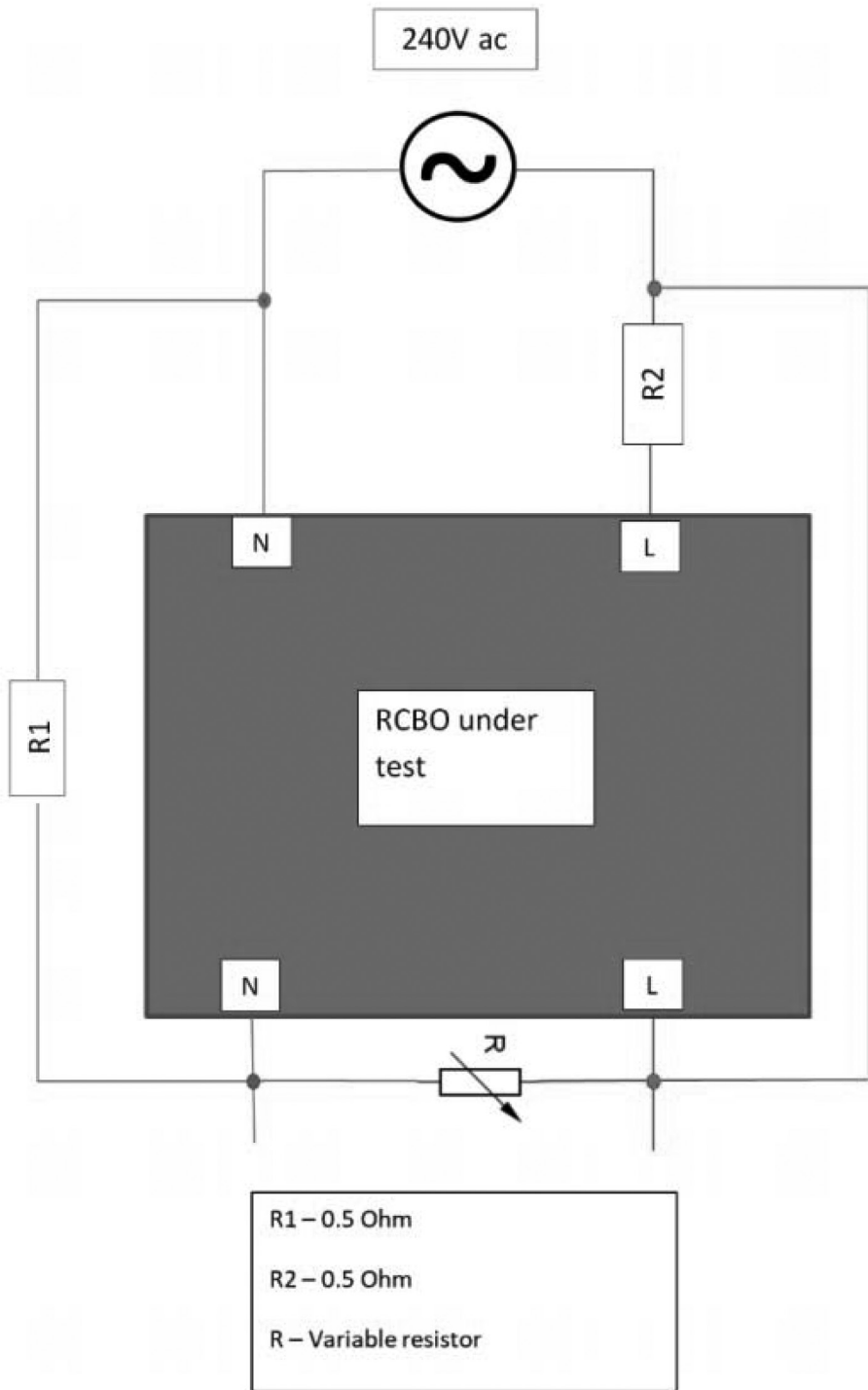
Results and publication

Submissions for a RCBO to be considered for listing on the ESV's website must include the testing and verification results with a new product sample. The product sample and these results should be posted to:

Attention Electrical Equipment Safety RCBO Compliance
Energy Safe Victoria
Level 5, Building 2, 4 Riverside Quay
Southbank, Victoria 3006.

For further information, please email info@energysafe.vic.gov.au

Test circuit diagram



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