



RCD Protection

Selection and Installation Guide for
Residual Current Devices

Guide 2026

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The aim of this guide is to provide advice for the selection and installation of Residual Current Devices according to, AS/NZS 3000 (wiring rules), New Zealand Electrical Safety Regulation 2010* and based on Schneider Electric best practices and products.

The information provided in this guide contains general descriptions and/or technical characteristics of the performance of the products contained herein.

This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the responsibility of the reader to ensure that any electrical installation work is performed in accordance with New Zealand regulations and the relevant edition of AS/NZS 3000 (Wiring Rules).

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Any work performed on an electrical installation must comply with all applicable local, regional and national regulations.

Failure to observe this information can result in injury or equipment damage.

* Electrical (Safety) Regulations 2010 Version as at 13 November 2025.








Where to use residual current devices

RCDs shall be installed for additional protection for the following installations:

Installation Type	Protected Circuits	AS/NZS 3000:2018	NZ Regulation 2025 (Nov)	Additional Protection Requirement	Schneider Electric Offers
Residential Installations	Final sub-circuits supplying one or more Lighting points	2.6.3.3.1 (a)	Reg 24 (3)	Type A, 30 mA: ■ Switching active and neutral conductors ■ No more than three final subcircuits shall be protected by any one RCD	Resi9: ■ RCBO ■ RCCB
	Final sub-circuits supplying one or more Lighting points	2.6.3.3.1 (b)	Reg 24 (3)		
	Directly connected hand-held equipment (such as hair dryers or tools)	2.6.3.3.1 (c)	Reg 24 (3)		
	Circuits carrying high frequency leakage currents such as those associated with frequency converters and electronic ballasts.	–	Schedule 2 AS/NZS 3000:2018 citation with modification no 4	Type F, 30 mA, and switching active and neutral conductors or Type B, 30 mA, and switching active and neutral conductors	Acti9: ■ iC60 2P/4P Type A-SI ■ iDPN Type A-SI ■ iID Type A-SI or ■ iID Type B
	Electric vehicle charging Mode 2 - minimum rating of 20 A	7.9.3.2 (a)	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductors	Resi9: ■ RCBO
	Electric vehicle charging Mode 3 or 4 - minimum rating of 32 A	7.9.3.3 (a), 7.9.3.3 (c)	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductors in conjunction with an RDC-DD or Type B, 30 mA and switching active and neutral conductors	Resi9: ■ RCBO or Acti9: ■ iID Type B
Home Care Installations	Installation of medical electrical equipment	2.6.3.3.1	Reg 24 (5)	Type I, 10 mA and switching active and neutral conductors within 40 ms at 5 x IΔn	Acti9: ■ iSPN
Non-Residential Installations	Socket-outlets with a rating not exceeding 30 A in Junior education and childcare facilities	2.6.3.3.1 (b)	Reg 24 (6)	Type A, 10 mA and switching active and neutral conductors within 300 ms at IΔn or 40 ms at 5 x IΔn	Acti9: ■ iSPN
	Socket-outlets with a rating not exceeding 30 A in Education and childcare facilities	2.6.3.3.2 (a)	Reg 24 (6)		
	Socket-outlets with a rating not exceeding 30 A and directly connected hand-held equipment in Other locations ■ Outdoor locations ■ Locations that have easy or unsupervised public access ■ Amusement arcades ■ Sockets in damp situation zones (refrigerated rooms and sanitization and general hosing-down operations)	2.6.3.3.2 (c)	Reg 24 (3)	Type A, 30 mA, and switching active and neutral conductors	Acti9: ■ iSPN ■ iC60 2P/4P ■ iDPN ■ iID ■ Vigi Add-on
	Any socket-outlets for Particular types of equipment ■ Children's rides ■ Vending machines	2.6.3.3.2 (d)	Reg 24 (3)		
	Circuits carrying high frequency leakage currents such as those associated with frequency converters and electronic ballasts.	–	Schedule 2 AS/NZS 3000:2018 citation with modification no 4	Type A, 30 mA, and switching active and neutral conductors in conjunction with an RDC-DD or Type B, 30 mA, and switching active and neutral conductors	Acti9: ■ iC60 2P/4P ■ Type A-SI ■ iDPN Type A-SI ■ iID Type A-SI or Acti9: ■ iID Type B
	Electric vehicle charging Mode 3	7.9.4	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductors in conjunction a RDC-DD or Type B, 30 mA and switching active and neutral conductors	Acti9: ■ iSPN ■ iC60 2P/4P ■ iDPN ■ iID Type A ■ Vigi Add-on or ■ iID Type B
Electric vehicle charging Mode 4	7.9.4	Reg 24 (3)	Type B, 30 mA and switching active and neutral conductors	Acti9: ■ iID Type B	

Installation Type	Protected Circuits	AS/NZS 3000:2018	NZ Regulation 2025 (Nov)	Additional Protection Requirement	Schneider Electric Offers
Additions and Alterations	Where all of the circuit protection on a switchboard is replaced, additional protection by RCDs is required as per Clause 2.6.3 (above situations)	2.6.3.3.4 (a)	Reg 24 (3)	Refer to Installation type	Refer to Installation type
	Socket-outlets added to an existing circuit shall be protected by an RCD in accordance with the requirements for new subcircuits	2.6.3.3.4 (b)	Reg 24 (3)	Refer to Installation type	Refer to Installation type
	Extensions to final subcircuits supplying lighting points only, require additional protection by RCD	AS/NZS 3000:2007 clause 2.6.3.4 (2) removed in AS/NZS 3000:2018	Reg 24 (3)	Type A, 30 mA switching active and neutral conductors	Acti9: ■ iSPN ■ iC60 2P ■ iDPN or Resi9: ■ RCBO
Protection against mechanical damage	Wiring systems near building surfaces fixed or restrained less than 50 mm from finished surfaces	3.9.4.4 (c)	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductors	Acti9: ■ iSPN ■ iC60 2P/4P ■ iDPN ■ iID ■ Vigi Add-on or Resi9: ■ RCBO ■ RCCB
Electric Heating Cables	All heating cables for floors and ceilings and trace heating applications shall be provided with additional protection by an RCD with a fixed rated residual current not exceeding 30 mA	4.10.5	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductors	Acti9: ■ iSPN ■ iC60 2P/4P ■ iDPN ■ iID ■ Vigi Add-on or Resi9: ■ RCBO ■ RCCB
Damp Situations	Socket-outlets installed in baths, showers and other fixed water containers zones 2 or 3 as defined section 6.2.2	2.6.3.1 (b) (iii) 6.2.4 Table 6.1	Reg 24 (3)	Type A, 30 mA and switching active and neutral conductor	Acti9: ■ iSPN ■ iC60 2P/4P ■ iDPN ■ Vigi Add-on ■ iID or Resi9: ■ RCBO ■ RCCB
	Socket-outlets and luminaires installed in zones 1 or 2 of swimming pools, paddling pools, and spa pools or tubs as defined 6.3.2	2.6.3.1 (b) (iii) 6.3.3.3 (a) 6.3.4 Table 6.2	Reg 24 (3)		
	Supply of electrical equipment of fountains and water features. In addition, luminaires, appliances and other equipment in zone 1 as defined by figure 6.20	2.6.3.1 (b) (iii) 6.4.4.5 Table 6.3	Reg 24 (3)		
	All equipment within the sauna room other than the sauna heater	2.6.3.1 (b) (iii) 6.5.3.3	Reg 24 (3)		
	Socket-outlets and heating elements with the door seals of refrigeration rooms	2.6.3.1 (b) (iii) 2.6.3.3.2 (c) 6.6.3.6	Reg 24 (3)		
	Socket-outlets located within sanitation and general hosing-down operations zones as defined in section 6.7.2	2.6.3.3.2 (c)	Reg 24 (3)		

Schneider Electric Residual Current Devices - RCDs Type A interrupting all live conductors

Resi9 RCBO	Resi9 RCCB	Acti9 iSPN	Acti9 iDPN	Acti9 iC60 (Din-Rail)	Acti9 iID	Acti9 Vigi iC60
						

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