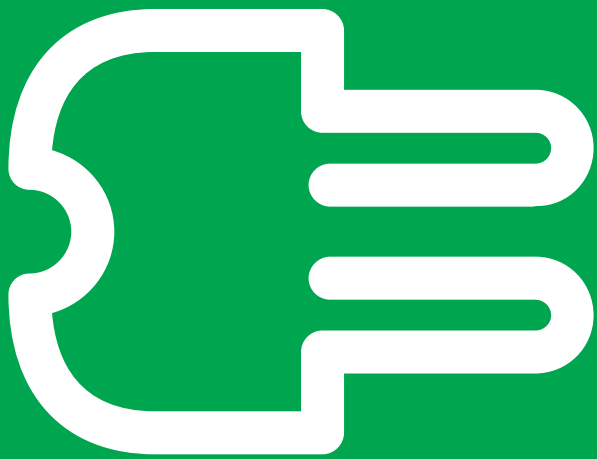


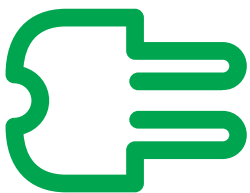
Are you aware of the new wiring rules

AS/NZS3000:2007



The new AS/NZS3000:2007 wiring rules

are available and compliance will be required once these are cited.



Schneider Electric is the major supplier of protection devices for use in Low Voltage Distribution networks and we would like to bring to your attention changes that should be considered in the design and build of Switchboards.

1. **2.5.5.1, 2.5.5.2** and **2.5.5.3** clauses are to do with protection against fault currents for switchboards above 800A and how you comply with these requirements.

> This means: Switchboard design and correct trip selection and adjustment of $\geq 800A$ circuit breakers.

2. Clause **2.5.7.2.3** and **Fig 2.11** relate to general supply circuit discrimination and the importance of **Coordination between upstream and downstream protection devices**.

> This means: To discriminate correctly, a coordination study is necessary to meet the standards requirements. Schneider Electric has a simple downloadable software package that will assist you in determining the correct coordination of our protection devices to achieve discrimination. **Curve direct 1.7** can be accessed and downloaded at www.schneider.co.nz/support/downloads

3. Clause **7.3.8.1** and **Figs 7.2 to 7.4** relate to the connection of an alternative (stand-by) supply to an installation.

> This means: The Generator neutral may need to be switched requiring 4 pole switches and/or breakers.

Each RCD shall have a maximum of 3 final subcircuits

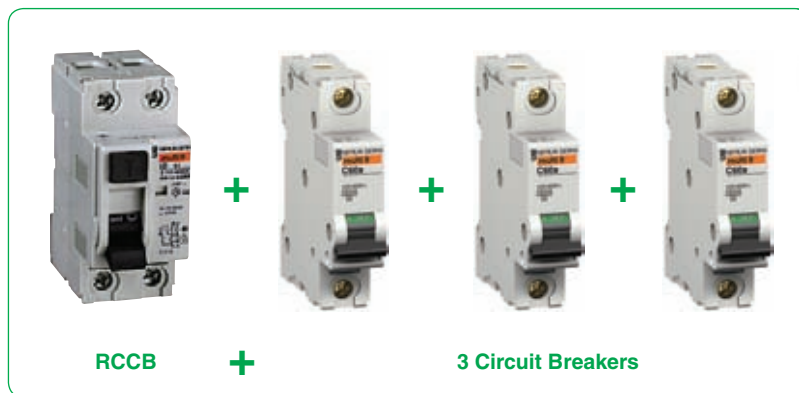
The new AS/NZS3000:2007 wiring rules are now available. Once these are cited into the electricity regulations in 2008, it will become compulsory to **install a minimum of two RCDs at the switchboard, and that each RCD shall supply a maximum of three final subcircuits off it.**

This is intended to minimise the impact of the operation of a single RCD.



PDL Superboards – Upgraded

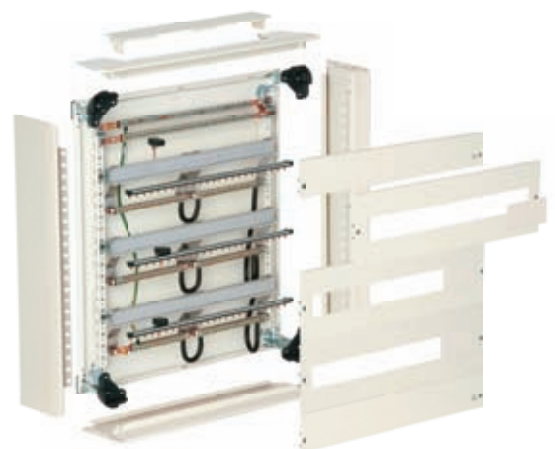
Note – Image has cover section removed for illustration purposes only.



Multi 9

The new **Prisma Plus** and **PDL Superboards**, combined with the **Multi 9** RCD/MCB range, will make an easy installation from **Schneider Electric**.

Minimum of 2 RCDs in domestic installations having more than 1 final subcircuit



Prisma Plus

Note – Pre-assembled metal switchboard.

Image expanded for illustration purposes only.

New AS/NZS3000:2007

2.6.2.4 Arrangement

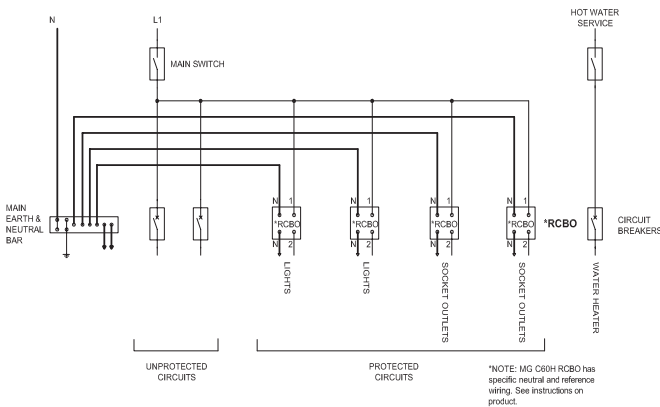
Where additional protection of final subcircuits is required in accordance with Clause 2.6.3, the final subcircuits shall be arranged as follows:

- (a) Not more than 3 final subcircuits shall be protected by any one RCD; and
- (b) Where –
 - (i) the number of RCDs installed exceeds one; and
 - (ii) more than one lighting circuit is installed, the lighting circuits shall be distributed between RCDs.
- (c) In domestic installations having more than one final subcircuit, a minimum of 2 RCDs shall be installed.

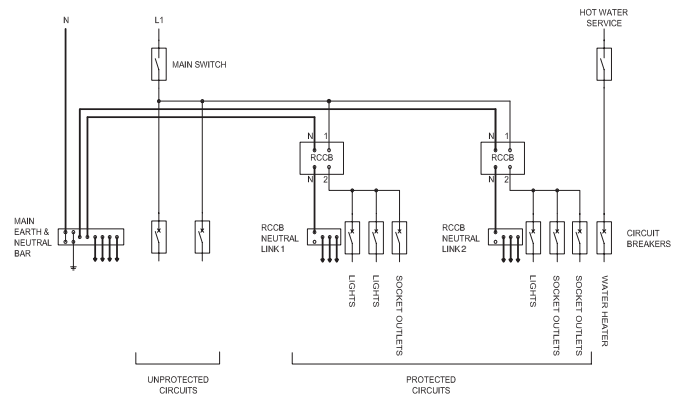
Note: These arrangements are intended to minimise the impact of the operation of a single RCD.

Reproduced from AS/NZS3000:2007 with the permission of Standards New Zealand under Licence 000682

Option 1 – 1 phase RCBO



Option 2 – 1 phase RCCB



PDL Superboards –

- > MACH3 – a 3 stage project to upgrade the range to meet the new standards and bring in new features called for by installers
 - Stage 1 is already released, 10 Way, 15 Way, & 30 Way upgrades
 - Stage 2 is set for mid-2008, and includes bigger and better 45 Way & 60 Way boards
 - Stage 3 is planned for late 2008, and more information will be available closer to this time



Prisma Plus –

- > Pre-assembled “PACK” distribution board giving a solution from residential to commercial applications
- > Ample room around DIN rails and E/N bars. Metal or glass removable doors
- > 2-6 rows, 48-144 Ways. More room than you’ll ever need, rated to 100A single phase & 160A three phase. Includes comb bars
- > Recess kit option available for walls >120mm deep



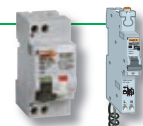
Multi 9 RCCB – residual current circuit breaker without overcurrent protection

- > 2P & 4P, 40A, 63A, 80A, 100A & 125A, 30mA Type A
- > Used to feed multiple MCBs – maximum x3 as per AS/NZS3000:2007
- > Tip – use Multi 9 RCCB Type “Si” for increased protection against nuisance tripping



Multi 9 RCBO – residual current circuit breaker with overcurrent protection

- > 2P 6A – 40A, 6kA, 30mA, Type A
- > RCD protection combined with an MCB
- > Tip – use Multi 9 RCBO Type “Si” for increased protection against nuisance tripping



Multi 9 C60/C120 MCB – miniature circuit breaker

- > 1P, 2P, 3P, 4P 1A – 125A
- > 4.5kA, 6.0kA, 10kA, 15kA



www.schneider-electric.co.nz

For additional product information please call Customer Care on 0800 652 999 or visit your local wholesaler

*Pricing & reference information listed in the Schneider Electric Catalogue
 Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.
 © Schneider Electric

