

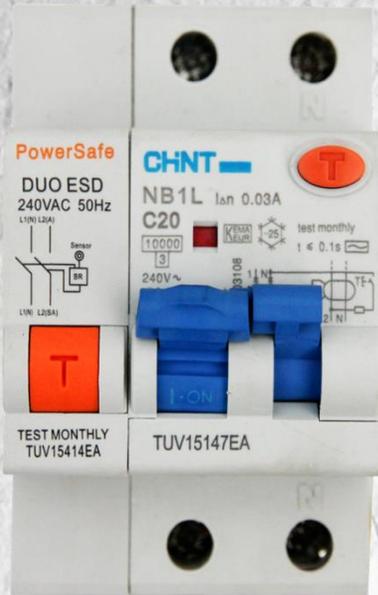
Single Phase Protection 6kA & 10kA

- MCB protection (overcurrent)
- RCD protection (in MEN systems)
- ESD Protection (voltage & current on earth)

There are many situations where a traditional RCD or RCBO does not offer protection. A traditional RCD isolates power when there is a current imbalance between the active and neutral conductors (fault to Earth). To do this the RCD generally relies on good earthing integrity and a low earth impedance.

The Powersafe DUO ESD offers a much broader range of protection by operating in various earthing environments. The DUO ESD is designed to isolate power in the occurrence of a fault to earth on *MEN* and *IT* type systems. The DUO ESD is connected to the earth circuit, which however is not required to be earthed, so the need for earth staking generators is a thing of the past. Generally at 40 volts (the potential point to electrocute) the device will trip at 10mA. This can be altered to meet the application at the point of assembly.

Unlike many other devices on the market the DUO ESD has no relays or coils with moving parts and therefore is not subject to vibrations caused by generators and transportation.



Single Phase DUO ESD			
Description	Current Rating	Size	Part Number
DUO 1P+N 6kA C10	10A	2 Module	DUOC106KA
DUO 1P+N 6kA C16	16A	2 Module	DUOC166KA
DUO 1P+N 6kA C25	25A	2 Module	DUOC256KA
DUO 1P+N 10kA C10	10A	3 Module	DUOC1010KA
DUO 1P+N 10kA C16	16A	3 Module	DUOC1610KA
DUO 1P+N 10kA C20	20A	3 Module	DUOC2010KA

Three Phase Protection

- All the advantages of the single phase model
- Can be paired with either MCB or RCD
- Added protection against phase loss



The Duo is designed to be paired with the MCB on the supply circuit. This allows the fault condition to be easily identified. If the RCD trips there is an active /neutral imbalance. If the DUO ESD trips the MCB you know it is either an overcurrent (MCB), or a phase loss or voltage on earth fault (ESD). The duo will isolate in the event of a first fault and will allow power use without an Earthed electrical system while still offering earth fault protection. The device can be fitted to RCD if required.

Three Phase DUO ESD			
Description	Current Rating	Size	Part Number
DUO ESD with C20 10kA 3 Pole MCB	20A	4 Module	DUO415C20
DUO ESD with C32 10kA 3 Pole MCB	32A	4 Module	DUO415C32
DUO ESD with C63 10ka 3 Pole MCB	63A	4 Module	DUO415C63
DUO ESD with C50 10kA 4 Pole RCD	63A	9 Module	DUO415RCD

Other sizes available on request

Plug n Play

As we are a Power Board Manufacturer, we offer the device in numerous power boards that are Australian certified and fully approved. This means you simply purchase a power board that utilizes the DUO and plug n play.

Powersafe also stocks a complete range of IP66 rated circuit breaker windows and accessories for refitting of existing power equipment.

For further information please see the DUO SAFETY FOR GENERATORS pamphlet or visit our website <http://www.powersafe.net.au/shop/the-duo/>



This document is not offered as an electrical solution and is not offered as a substitute for correct Electrical connection – Refer to a licenced electrician for connection to ensure that the electrical System is connected as required under Australian Standards



Call Now for Power Safety
1800 338 979

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AUSTRALIAN CONDITIONS
POWERSAFE**