



Withdrawable Switchgear

Independently designed and developed with advanced technology for receiving and distributing energy, circuit control, monitoring and protection. Applies to 3 phase power systems of rated voltage 3.6-12kV AC 50/60Hz. For use with single or double busbar systems.



- 100% Australian designed and engineered
- Custom designed to specific requirements
- Arc fault containment
- Type tested
- Local service and sales support

- Wired by local Australian electricians
- Switchgear - IEC62271-200(IEC60298), IEC60694, GB3906 and DIN.VDE 0670 compliant
- Enclosure - IP4X protection grade (IP2X as the cubicle door is opened)

Features

- The enclosure is completely formed with Aluminium-Zinc coated steel plates, processed by a CNC machine, and then assembled, resulting in strong mechanical strength and a professional appearance. The door is powder coated with anti-impact and corrosion proof ability.
- The main circuit breaker can be VHY1/VS1/ZN73(D) / VZP1(Sino Germany) from HEAG or VD4 from ABB or FRHY1 type vacuum LBS or fuse combination from HEAG.
- For circuit breaker, the air insulation distance is over 125mm, and the composite insulation is over 60mm.

The cubicle can collocate with VCB trolley or fixed load switch. The enclosure and separating plates are made of Aluminium-Zinc plated steel sheeting and has a strong resistance to oxidation and corrosion.

The cubicle is divided into a busbar compartment:

- VCB compartment
- Cable compartment
- Relay instrument compartment (low voltage compartment)

Each independently connects/connecting ground.

Interlocks

The Nepean Power Metal clad Switchgear is equipped with optional interlocks preventing incorrect operations putting the operator's safety at risk and compromising the efficiency and reliability of the equipment.

These interlocks inhibit the following operations:

- Closing of the circuit-breaker unless the connected or isolated positions are reached
- Plugging-out of the closed circuit-breaker
- Plugging-in of the closed circuit-breaker
- Door opening if the circuit-breaker is plugged in or halfway between being plugged in and isolated
- Plugging-in of the circuit-breaker when the compartment door is open

In addition, if the unit is equipped with an earthing switch, operations include:

- Closing of the earthing switch if the circuit-breaker is plugged in or halfway between being plugged in and isolated
- Plugging-in of the circuit-breaker with the earthing switch closed
- Opening of the feeder compartment door with the earthing switch open
- Opening of the earthing switch with the feeder compartment door open

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Item		Unit	Data
Rated insulation level	1 min power frequency (phase to earth / across open contacts)	kV	42/48
	Lighting impulse withstand voltage (phase to earth / across open contacts)	kV	75/85
Rated voltage		kV	12
Rated frequency		Hz	50/60
Rated current		A	630 - 4000
Main busbar rated current		A	1250, 1600, 2000, 2500, 4000
Branch busbar rated current		A	630, 1250, 1600, 2000, 2500, 3150
Rated short time withstand current(4s)		kA	16, 20, 25, 31.5, 40, 50
Rated peak withstand current		kA	40, 50, 63, 80, 100, 125
Protection degree			Enclosure IP4X, IP2X (VCB door opened)
Outline dimension (width x depth x height)		mm	650 (800, 1000) x 1500 (1300, 1670, 2000) x 2200
Weight		kg	800 - 1200

