



## Solid Insulated Switchgear



- · Short Delivery, typically 10-12 week delivery
- · Vacuum insulated switching No SF6 Gas
- · Visual earth and break, LED Illuminated
- · System Extendable/ can be expanded

- Standard configurations available CB's, Isolators, contactors
- · Switch body protection grade is IP67
- Suitable for Genset synchronising
- · Motor operator available for isolators and earth
- · switches

## **Overview**

NEPEAN Power solid insulated switchgear is a high voltage ring main, environment-friendly unit which provides a high level of safety. It is used in secondary power distribution systems with a voltage range up to 24KV.

The switch has three switching options:

- V (circuit breaker)
- · C (load switch)
- F (load switch/ fuse combination unit).

Excludes SF6 gas and other harmful gases with APG embedded technology.

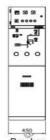
It has advantages of full insulation, a long lifetime, no maintenance, small size, safe and is not affected by the environment; it has LED illumination, on breaker open, clear vision on three-phase isolation, providing visual break and earth.



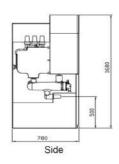
**CSR010 Self-powered Protection Relay** 



CKSS-



Breaker Isolator



"C" means load switch unit "V" means circuit breaker unit "F" means load switch-fuse combination unit "D" means busbar unit without switch "G(PT)" means PT unit with disconnector

"M" means metering unit

"GL" means buscouple segmentation (load switch) unit

"VL" means buscouple segmentation (circuit breaker) unit

Rated Voltage

Fully Insulated, fully solid switchgear

**NEPEAN Power** 

Revision 1.1







## Solid Insulated RMU



Item	V Unit		C Unit		F Unit	
Rated voltage (kV)	12	24	12	24	12	24
Rated current (A)	630		630		125	
Rated frequency (Hz)	50					
Power frequency withstand voltage (kV), phase to phase, phase to earth/open contact	42 / 48			50 / 60		
Lighting Impulse withstand voltage (kV), phase to phase, phase to earth/open contact	75 / 85		125 / 145			
Rated short-circuit breaking current (kA)	25			•	31.5(Fuse)	
Rated cable-charging breaking current (A)	25		1	0		
Rated short time withstand current (kA)	25		20			
Rated short time withstand time (S)	4		4			
Rated peak withstand current (kA)	63		50			
Rated short time making current (kA)	63		50			
Rated breaking transfer current (A)					31	50
Internal arc test AFLR level (kA/S)	25 / 0.5					
Partial discharge (pC)	≤20					
Protection level body / switch	IP4X / IP67					
Main circuit resistance (μΩ)	≤150		≤150		≤150	
Mechanical life (times) mani switch / disconnector	10000/3000		5000/3000		5000/3000	

