

GENiSYS II

GENiSYS II – Leading the market with a new and innovative generation of 12kV distribution metal clad switchgear. The unparalleled design brings together both new innovative technologies with that of well-established principles. The unit utilises plug and play philosophy thereby ensuring maximum versatility and delivering a cost competitive solution. The fixed pattern sealed design of GENiSYS II dispenses with the complex racking mechanism, shutter assemblies, isolating contacts, secondary plugs and sockets associated with withdrawable switchgear.

Extensive research and analysis has resulted in a high quality discharge free product for long service life in the toughest or environments.

At the heart of the design is:

- Operator safety – robust interlocks, simple clear mimic, intuitive operation
- Reliability – solid dielectric insulation using epoxy resin and silicon insulation
- Tried and tested motor wound spring mechanism
- Reduced ownership costs – compact dimensions
- Flexibility – front, rear top or bottom plug on or heat shrink cable termination, busbar and feeder voltage transformers, ample current transformer accommodation, option of motor operated disconnector
- Isolated from the environment – sealed high voltage – earthed touch proof design
- Three position on - off - earth off load disconnector.



The compact dimensions of the GENiSYS II ensures that customers are provided with the most cost effective solution with a reduction in land requirements and the associated civil costs. These compact dimensions, along with the ability to site the switchboard in close proximity to a wall make the unit ideal for containerised substation solutions and where space is limited within buildings.

GENiSYS II



Technical Specification

Items	Unit	630A	1250A
Rated voltage	kV	12	12
Rated frequency	Hz	50	50
Rated power frequency withstand voltage (between phases, to earth) 1 minute dry	kV	28	28
Rated power frequency withstand voltage (across the isolating distance) 1 minute dry		38	38
Rated power frequency withstand voltage (control and auxiliary circuit) 1 minute dry		2	2
Rated lightning impulse voltage (between phases, to earth)	kVp	95	95
Rated lightning impulse voltage (across the isolating distance)		110	110
Rated partial discharge	<10pc @ 13.2kV		
Rated continuous current - circuit	A	630	1250
Rated continuous current – busbars rms	A	630	1250
Rated short-time current 3s	kA	20	20
Rated peak withstand current	kAp	50	50
Rated short circuit making current	kAp	50	50
Rated fault breaking current	kA	20	20
Mechanical Life	ops	10000	10000
Circuit breaker		3000	3000
Disconnecter/earthing switch			
Rated operating sequence	s	O-0.3-CO-15-CO	
Rated control voltage for remote operation	Vdc	110	110
Operating temperature range	°C	-5 to +40	-5 to +40
Relative humidity	%	0-100	
Maximum altitude above sea level	m	1000	1000
Degree of protection high voltage	IP65		
Degree of protection low voltage (Indoor)	IP4X		
Rated arc fault containment	IAC AFLR 20kA 1 s		

Applicable Specifications

- IEC 62271-100
- IEC 62271-200
- EATS 41.36