

Switchgear and Power Products

Indoor Circuit Breaker













Characteristics	Units	12kV Indoor Vacuum Circuit Breaker					36kV Indoor Vacuum Circuit Breaker		Vertical Isolation VCB		
Characteristics	VCB						VCB	GCB	VCB		
Rated Voltage	kV	Upto 12 (Calix)*					Upto 36 (Felix)	Upto 36	3.6 t	o 12	
Rated Current	Amp	Upto 800	Upto 800 Upto 1250 Upto 2000 Upto 2500 Upto 3150 Upto 4000				630 to 2000		400 to 1250		
No. of Poles	nos		3					3		3	
Frequency	Hz		50/60					50/60		50	
Symmetrical Breaking Capacity	kA rms for 3sec	13.1	20	26.3	31.5	40	50	23.3 / 31.5 / 40		13.1	20
Making Capacity	kApk	32.75	50	65.75	78.75	100	125	65.75 / 78.75 / 100		32.75	50
Power Frequency Withstand Voltage	kV rms	28 (std) / 35 (optional)					70		28		
Impulse Withstand	kVpk	75 (std) / 95 (optional)					170 / 195 optional		75		
Operating Duty	cycles	O-0.3sec-CO-3min-CO (Rapid Autoreclosing Duty)					O-0.3sec-CO-3min-CO	O-3min-CO-3min-CO	O-0.3sec-C	O-3min-CO	
Total Break Time	cycles	3 3.5				4		3			
Make Time	cycles	3						4		3	
DC Component	%	<50%						<50%		<50%	
Degree of Protection		IP 4X (std) / IP 5X (optional)						IP 4X (std) / IP 5X (optional)		IP 4X	
Applicable Standard		IS 13118, IEC 62271 - 100/200					IS 13118, IEC 62271 - 100/200		IS 13118, IEC 62271 - 100/200		
Variants Available		Integral Earth Switch, Portable earthing truck						Fixed type PT	Integral Earth Switch, Portable Earthing Switch		
*Rated Voltage: 15 / 17.5kV Available for	Export Market										



Outdoor Vacuum Circuit Breakers









Characteristics	Units	Porcelain Clad Vacuum Circuit Breaker					Metal Clad Vacuum Circuit Breaker-KIOSK				
		PVCB					Roof Bushing	Line Up			Roof Bushing
Rated Voltage	kV	Upto 12* 36			12				36		
Rated Current	Amp	Upto 800	Upto 1250	Upto 1600	Upto 1600 Upto 2000		Upto 1250	Upto 1250	Upto 1600	Upto 3150	Upto 2000
No. of Poles	Nos	3					3				
Frequency	Hz	50/60					50				
Symmetrical Breaking Capacity	kA rms for 3sec	13.1	20	26.3	26.3 26.3 40		Upto 26.3	20	26.3	40	26.3
Making Capacity	kApk	32.75	50	65.75	65.75	100	32.75	50	65.75	100	65.75
Power Frequency Withstand Voltage	kV rms	28 (std) / 35 (optional) 70 (std) / 95 (optional)			28			70			
Impulse Withstand	kVpk	75 (std) / 95 (optional) 170 (std) / 210 (optional)			70				170		
Operating Duty	cycles	O-0.3sec-CO-3min-CO (Rapid Autoreclosing Duty)				ıty)	O-0.3sec-CO-3min-CO				
Total Break Time	cycles	3 4				3				3.5	
Make Time	cycles	3			4		3			3	
DC Component	%	<50%					<50%				
Degree of Protection		IP 55					IP 54				
Applicable Standard		IS 13118, IEC 62271 - 100					IS 13118, IEC 62271 - 100/200				





Gas Insulated Switchgear (GIS)

Antarix

- Compact design & reduced space requirement
- Easy future extensibility of the network through flexible plugin connectors
- Ring type Current transformers

Characteristics - GIS	Value
Rated Voltage	36 kV
Rated Current	
General Busbars	1600 A
Outgoing Lines	1250 A
Rated Short Circuit Current	
Breaking Capacity	26.3 kA
Making Capacity	66 kAp
Short time current withstand	26.3 kA - 3 sec
Lightening Impulse	
Between phase & phase to earth	170 kVp
Isolating distance	195 kVp







Ring Main Unit

- Stainless steel enclosure fabricated by automatic robotic welding
- Isolation in clean $\mathrm{SF}_{\scriptscriptstyle \theta}$ gas for ring switch & in vacuum for CB
- Common switching chamber with Vacuum Tee off circuit breaker
- Internal arc protection including cable boxes
- Fully SCADA compatible unit with remote switching
- Highly compact and well protected with pad-lock, interlock
 & earthing facilities

	RMU			Multi Circuit SF 6 Gas Insulated Vacuum RMU	TRIDENT Range Oil RMU		
Characteristics	SABRE - VRE - VRE 6A		SABRE	MCR	FRMU / NEFS / EFS / EOS / DEOS		
					Ring Switch	Fuse Switch	
Rated Voltage kV	12 / 15.5		24	12	12 / 15.5		
Rated Current A	630		630 for Ring Switch & 400 for CB	630	630	400	
Symmetrical Breaking Capacity kA/sec	21/3		16/3	21/3			
Making Current kAp	52.5		40	52.5	55 / 55	50 / 7.8	
Impulse withstand kVp	75/110 (optional)		125	75 / 95 (optional)	110	110	
Min Gas Pressure Bar		0		0			
Filling Pressure Bar	0.4		0.5	0.4			
Index of Protection	IP 54			IP 54	IP 54		



Unitized Sub Station

RADIX Series

- It comprises of:
 - HV compartment consisting of a Vacuum Circuit Breaker (VCB) or a Ring Main Unit (RMU)
 - A Step down Transformer (X'MER)
 - Low Voltage (LV) compartment consisting of LV distribution panel

Protection from unauthorized access and environmental hazards

Ease of operation & maintenance

ENCLOSURE

All equipments mounted on a common galvanized steel GI base with fabricated enclosure

Completely detachable side wall, ensuring ease of access to all equipments Louvers are provided for cross ventilation

HV COMPARTMENT

SF6 Gas filled Vacuum RMU

Choice of Oil cooled or Dry type transformer

Rating: Up to 1600kVA with Voltage: 12kV

LV COMPARTMENT

Rating up to 2000 A, 440 V

LV Switchgear: ACB / MCCB feeder board up to 12 feeders

On-Load Tap Changer

F - Series

A high speed resistor type, for use with 3-ph distribution substation transformer

Housed in a single tank of current diversion & tap selection

Suitable for limited power flow in reverse direction

Designed for long service with an absolute minimum maintenance



Characteristics - Offitized Sub Station	KADIX
Degree of Protection	IP 23D*
Duty	Outdoor
Type of Ventilation	Natural
Standard Color #	CG Blue
Rated Voltage	12 kV
Rated Power Frequency withstand Voltage	28 kV
Rated lightening Impulse withstand Voltage	75 kV

RADIX

*Higher degree of protection shall be provided on request # Any other color shades shall be provided on request

Characteristics - Unitized Sub Station





Characteristics - On-Load Tap Changer	F33	F66
System Voltage	36 kV	72 kV
Maximum No. of Positions	17	17
Maximum Step Voltage		
At rated current of 100A	1250 V	1250 V
At rated current of 200A	1250 V	1250 V
At rated current of 300 A	625 V	625 V
Rated Current	300 A	300 A



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