

SafeRing and SafePlus, 12 to 24 kV

SF6 Insulated Outdoor Ring Main Unit and Compact Switchgear

A photograph of an ABB SafeRing or SafePlus outdoor ring main unit and compact switchgear. The unit is a large, light-colored metal cabinet with multiple doors and ventilation grilles. It is positioned in the foreground, with a city skyline at night in the background. The unit has a glowing outline effect. The background shows tall buildings with many lit windows, reflecting on the water in the foreground. The overall scene is dark, with the city lights providing a vibrant contrast.

Key Features:

- Robotically welded stainless steel tank.
- Extensibility on either side or both
- Earthing switches interlocked with cable covers
- Bushings for cable connections in front with arc-resistant cable cover for operator safety
- Maximum 4 modules in a single tank/Modular construction
- IP54 degree of protection/Suitable for 50 Deg. Centigrade ambient conditions
- Complete solutions including applications for remote control and monitoring

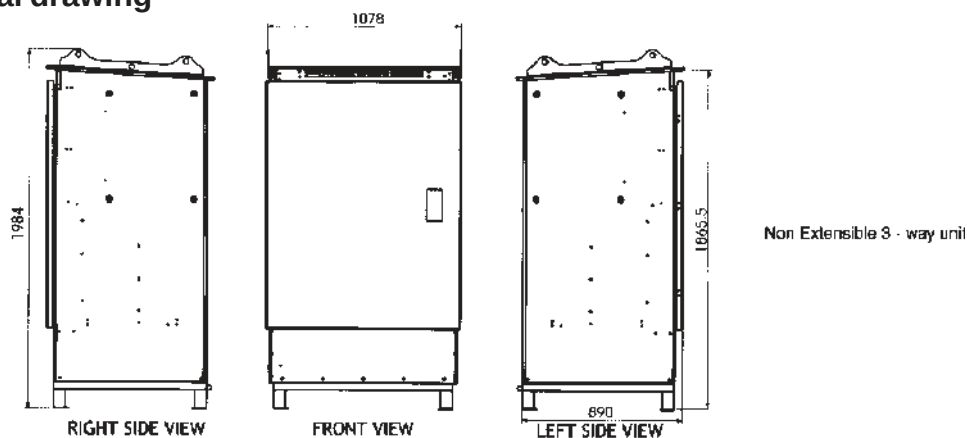
Technical Specifications

		C- module		F- module		V- module	
		Switch disconnector	Earthing switch	Switch fuse	Downstream earthing switch	Vacuum circuit breaker	Earthing switch
Rated voltage	kV	12 / 17,5 / 24	12 / 17,5 / 24	12 / 17,5 / 24	12 / 17,5 / 24	12/15,2/17,5/24	12/15,2/17,5/24
Power frequency withstand voltage	kV	28 / 38 / 50	28 / 38 / 50	28 / 38 / 50	28 / 38 / 50	28 / 38 / 38 / 50	28 / 38 / 38 / 50
Impulse withstand voltage	kV	95 / 95 / 125	95 / 95 / 125	95 / 95 / 125	95 / 95 / 125	95 / 95 / 95 / 125	95 / 95 / 95 / 125
Rated current	A	630 / 630 / 630		Ver ¹⁾		630/630/630/630	
Breaking capacities:							
closed loop	A	630 / 630 / 630					
of load cable charging	A	135 / 135 / 135					
of load transformer	A			20 / 20 / 20			
earth fault	A	200 / 150 / 150					
earth fault cable charging	A	115 / 87 / 87					
short circuit breaking current	kA			Ver ²⁾		21 / 21 / 16 / 16	
Making capacity	kA	62,5 / 52,5 / 52,5	62,5 / 52,5 / 52,5	Ver ²⁾	12,5 / 12,5 / 12,5	52,5/52,5/40/40	52,5/52,5/40/40
Short time current 1 sec.	kA	25 / - / -	25 / - / -		5 / 5 / 5		
Short time current 3 sec.	kA	21 / 21 / 21	21 / 21 / 21			21 / 21 / 16 / 16	21 / 21 / 16 / 16

1) Depending on the current rating of the fuse 2) Limited by high voltage fuse links

SafeRing and SafePlus are tested according to IEC publications IEC 60265, IEC 60129, IEC 60056, IEC 60420, IEC 60694 and IEC 60298.

Dimensional drawing



Available modules of SafePlus

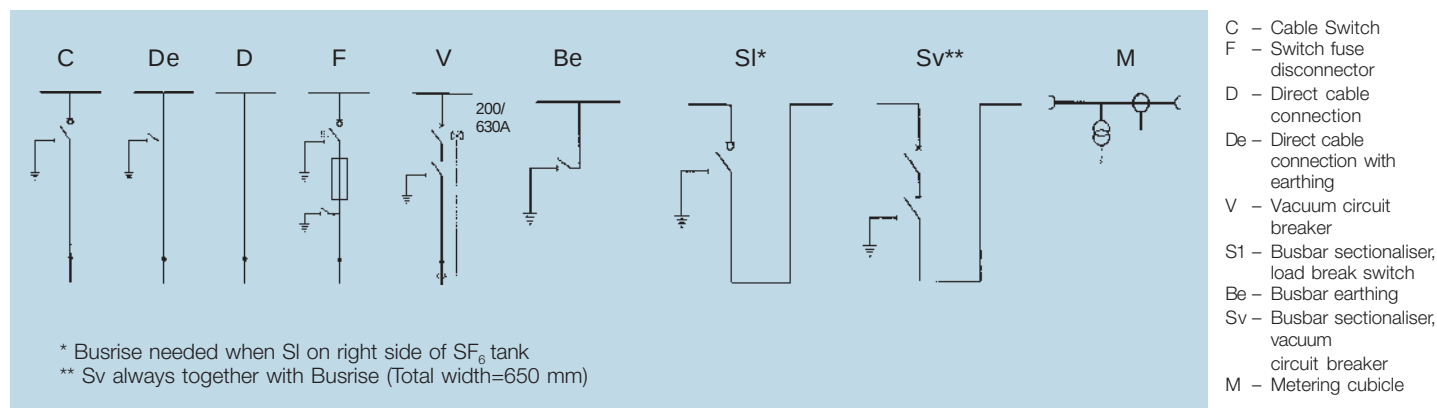


ABB Limited
Plot No. 79, Street No. 17
MIDC, Satpur
Nashik 422 007
Tel: +91 253-2201200
Fax: +91 253-2351260

Regional Marketing Offices:

North

No.14, Mathura Road
P.O. Amar Nagar
Faridabad 121 003
Tel: +91 129 2275592,
2279627, 5049000
Fax: +91 129 2279692/5019
SCO No.13-14-15
(3rd Floor)
Sector 34-A
Chandigarh - 160 022
Tel: +91 172 2606093
Fax: +91 172 2601618

South

Embassy Star 1st Floor
No. 8, Palace Road
Vasanth Nagar
Bangalore 560 052
Tel: +91 80 22949779
Fax: +91 80 22949808
Century Plaza
No. 3C, 3D & 3F, 3rd Floor
561 / 562, Anna Salai
Teynampet (Mount Road)
Chennai 600 018
Tel: +91 44 24340201
Fax: +91 44 24340282

Central

4th & 5th Floor
Maruti Heights
Aamanaka, G E Road
Raipur 492 099
Tel: +91 771 4701016
FF- 9A, 1st Floor
Manasarover Commercial
Complex
Hoshangabad Road
Bhopal 462016
Tel: +91 755 4223572
Fax: +91 755 4253323

West

ABB House
Dr. S B Path
Ballard Estate
Mumbai 400 038
Tel: +91 22 56318231 – 39
Fax: +91 22 56318276/77

East

4th Floor
No. 9, Elgin Road
Kolkata 700 020
Tel: +91 33 22832906/8
Fax: +91 33 22832990