

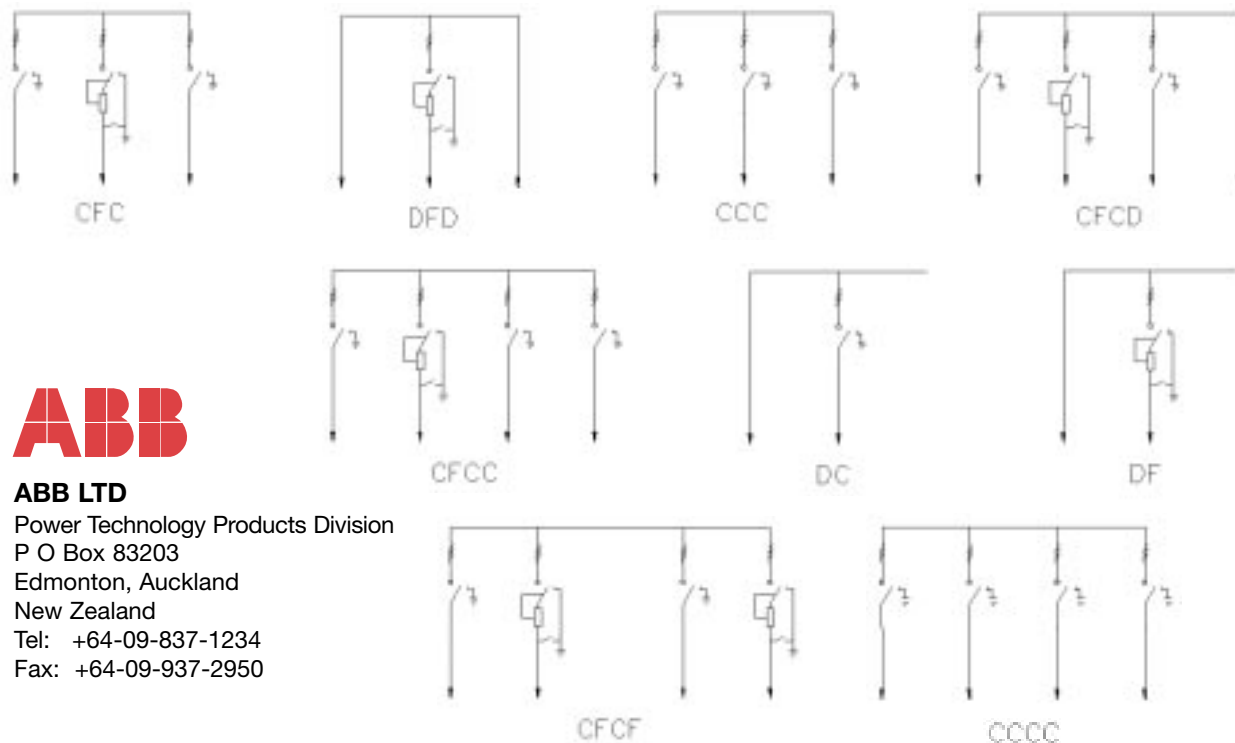
TECHNICAL SPECIFICATION

		Switch disconnect	Switch fuse	Earthing switch
Rated Voltage	kV	12	12	12
Power Frequency Withstand Voltage	kV	28 ¹	28 ¹	28 ¹
Impulse Withstand Voltage	kV	95	95	95
Rated Current	A	630	see 2	
Breaking Capacities:				
Closed loop	A	630		
Off load cable charging	A	10		
Short circuit breaking current	kA		see 3	
Making Capacity	kA	50	see 3	50
Short Time Current 3 sec	kA	20		20

1) 42kV on request. 2) Depending on the current rating of the fuse. 3) Limited by high voltage fuse links.

SafeLink RMU is tested according to relevant IEC publications IEC 60265, IEC 60129, IEC 60420, IEC 60694

CONFIGURATIONS



SF₆ Insulated Ring Main Unit SafeLink

A compact switchgear solution for secondary 12kV distribution networks.

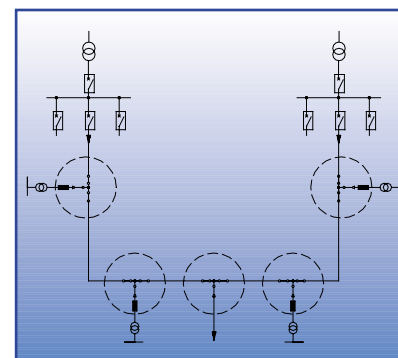
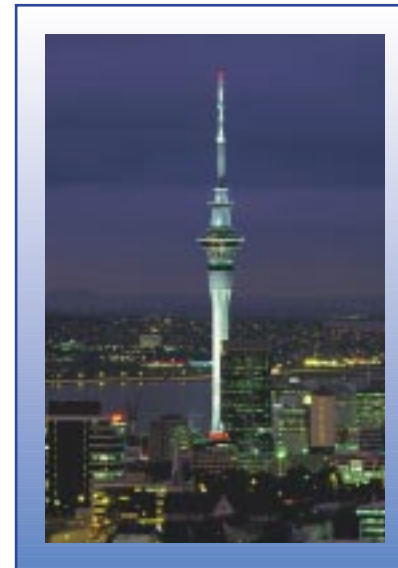


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SafeLink – Compact Ring Main Switchgear

General

The ABB type tested SafeLink ring main unit (RMU) is SF₆ insulated switchgear utilising the latest technology to provide a very safe and compact switchgear solution. SafeLink utilises a sealed switchgear system with a stainless steel tank containing busbars and switching devices. A sealed tank with constant atmospheric conditions ensures a high level of reliability as well as personal safety and a virtually maintenance free system.

The SafeLink RMU is manufactured according to the latest environmental and quality standards. The ABB assembly plant is certified according to ISO9001 (quality) and ISO14001 (environment).

Description

The SafeLink RMU consists of a sealed stainless steel tank containing a combination of load break switches and switch fuse combinations. The busbars and earth switches are enclosed in the tank, which is filled with SF₆ gas at just above atmospheric pressure. The switches are operated by means of spring-operated mechanisms. These mechanisms are mounted outside the tank and accessible behind the front panel. Earthing switches with making capacity are connected to the cable side and interlocked with the associated switches and cablebox access covers.

Fabrication

SafeLink is manufactured from a selection of quality materials to ensure long life. The tank is stainless steel and all panels are Aluzink corrosion-proof sheet steel. The support stand is a rigid, galvanised angle iron frame for maximum mounting stability.

FUSE COMPARTMENT

Fuses are easily accessible through the front door which is interlocked with the earth switch. Three-phase tripping indication is provided on the door. Each fuse is accommodated in a sealed epoxy canister. Earthing is made simultaneously on both sides of the fuselink.

OPTIONAL EQUIPMENT

- Auxiliary switches
- Trip coil for switch fuse
- Fault indicators
- Voltage indicator type LCD
- Motor operation
- Key interlocking
- Outdoor enclosure



A VOLTAGE INDICATION

SafeLink is fitted with test sockets for capacitive voltage indication. The indicator is an LCD plug-in type. The same sockets are used for phase comparison testing.

B OPERATOR PANEL

Includes a clear mimic diagram with active status of all switches. A padlockable selector handle ensures simple and logical operation with mechanical interlocking for safety.

C FAULT INDICATION

Fuse-tripping indication is provided with a red flag on the front door. Ring switches can be fitted with short circuit and earth fault indicators to facilitate fault location.

D PRESSURE SYSTEM

The switchgear is a low pressure design and is fitted with an SF₆ density gauge. A pressure release system allows venting downwards into a duct which forms the rear panel.

E CABLE CONNECTIONS

Cable bushings comply with DIN47636 with in-line bolted cable connections. A standard range of removable cable insulating boots can be fitted which allows access to the cable bushing for cable testing. Cablebox covers include interlocking with earth switch to ensure operator safety. All cablebox side panels can be easily removed for full access during installation and cabling.

