

Your sales contact:
quotation@grimard.ca

Technical support:
powerproducts@grimard.ca

Toll free:
1 (866) GRIMARD

**Two-High
Type 2BC**

SafeClad

5-15 kV Arc Resistant Metal-Clad Switchgear

SafeClad is a Utility Grade medium voltage Metal-Clad switchgear designed to meet the high availability levels demanded by power utilities, industrial process and healthcare services. Its arc resistant accessibility is Type 2BC, the ultimate personal protection level, from the front, back, sides, with the LV compartment door opened, and with an additional equipment survivability between adjacent compartment for a fast return to service after the event.

Features

- One-High or Two-High breaker frame
- Exclusive Arc Arrestor venting technology requiring room ceiling height of only 132 inches (3350 mm) without the need for ducting to outside.

Safety by Design

- Engineered and completely tested according to IEEE C37.20.7 for accessibility Type 2BC.
- Real 3 positions racking system with self-aligning automatic secondary connection
- Racking mechanism integrated to withdrawable breaker truck for moving parts maintenance outside the power compartment
- Thru-door racking access closed by exclusive safety scissor valve even during breaker racking with handle in place
- Safety-shutter padlocking provision easily accessible
- Copper busbar with high quality Tin plating for 100% current rating during all service life.
- PT, CPT and withdrawable fuses compartments with same complete features as breaker compartment

Compatible Switching Devices

- ABB VD4 (ADVAC), VD4G, VM1 (AMVAC)
- Eaton VCP
- Schneider HVX
- Siemens 3AH
- Others on request

Standards

- IEEE C37.20.2
- IEEE C37.20.7
- CSA C22.2 no 31
- CSA C22.2 no 0.22

Options Available

- Arc Arrestor venting technology to safely exhaust gases within electrical room
- Generator Switchgear Unit (GSU) version for small to large generator
- Solid Epoxy bus insulation and halogen/chlorine free boot cover
- Copper busbar with premium silver plating (to differentiate from very thin flashing commonly miscalled silver plating)
- Motorized racking mechanism inside breaker truck
- Amagnetical power cable entry plate
- Power cable support



Each unit include those special features:

1. Arc Arrestor venting technology
2. Horizontal low voltage wireway
3. Single handle breaker door latch system
4. Racking access with safety scissor valve
5. Racking release handle
6. Shutter position indicator



General features of SafeClad switchgear:

		Rated voltage	
		5 kV	15 kV
Test voltage at power frequency	kV 1 min	19	36
Impulse withstand voltage	kV	60	95
Rated frequency	Hz	60	60
Rated short-time withstand current	kA 1 s	12.5 - 25 - 31.5 - 40	
Peak current	kA 10 cy.	33.75 - 67.5 - 85 - 108	
Arc-resistant accessibility type	IEEE C37.20.7	2BC	
Internal arc withstand current	kA	12.5 - 25 - 31.5 - 40	
Internal arc withstand duration	sec.	0.5 - 1.0	
Main busbar rated current	A	1200 - 2000- 3000	
Rated current of the branch connections	A	1200 - 2000- 3000	
Overall dimensions of basic cubicles	H	1-High: 92.5 in. (2350 mm) 2-High: 104.7 in. (2660 mm)	
	W	39.4 in. (1000 mm)	
	D	1-High: 98.4 in. (2500 mm) 2-High: 108.3 in. (2750 mm)	
		GSU with back PT drawer: 118.1 in. (3000 mm)	



Application Sectors:

- Data Center
- Infrastructure & Transportation
- Metal Industry
- Mining
- Oil & Gas
- Power Utilities