

LEAFLET

# SecoGear 5kV - 15kV IEEE Metal Clad Switchgear

GE legacy product documentation

In 2018 ABB acquired GE Industrial Solutions. SecoGear is now serviced and maintained by ABB. If you need spare parts or your installed equipment has aged and requires modernization or replacement – ABB is your first point of contact (look for contact details on the last page).

## Overview

SecoGear metal clad switchgear is designed and manufactured with advanced technology and fully IEEE tested. At this time, SecoGear is designed for indoor applications, and is particularly suitable for applications in industry, mining, oil and gas and infrastructure; also suitable to provide control and protection of transformers, capacitors and motors. SecoGear is rated 5kV - 15kV, 31.5kA – 40kA, 1200A - 2000A, 50/60 Hz.

SecoGear is design to house latest vacuum circuit breaker, SecoVac VB2+, which utilizes a compact, spring charged operating mechanism with trip & close coils as well as spring charging motor combined into a single, small, easily replaceable module. Test results demonstrate SecoVac will operate well beyond the IEEE standards requirement of 10,000 mechanical operations.

## Standard Features

### SecoGear

- Designed with full IEEE Metal-clad compartment isolation
- Comprehensive and reliable interlocking system
- Automatic shutter system
- Robust draw out mechanism designed to help prevent misalignment during racking
- Cable compartment provides ample space for easy power cable connection

### SecoVac VB2+

- Vacuum interrupter embedded in environmentally friendly solid epoxy resin insulation
- Complete interlocking system to prevent incorrect operation
- Trip and close coils are universal to all SecoVac VB2+ ratings allowing for reduced maintenance time and low replacement cost
- Primary disconnect finger cluster is built of silver-plated copper and tested for continuous and short time current ratings



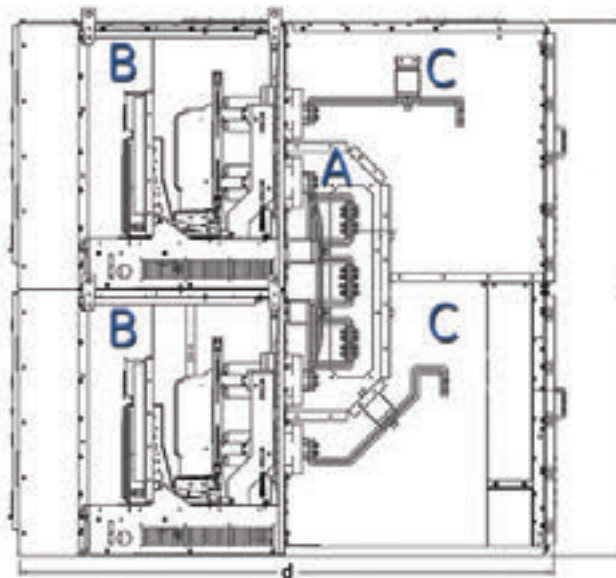
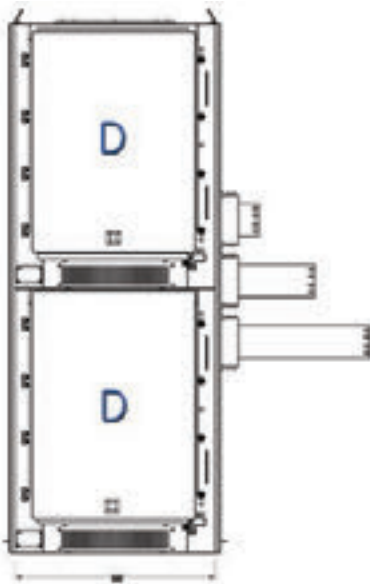
# Technical Data

Specification		1200/31.5	1200/40	2000/40
Rated Continuous Current (A)		1200	1200	2000
Rated Maximum Voltage (V)		4.76/8.25/15	4.76/8.25/15	4.76/8.25/15
Rated Power Frequency (1 min)	Phase to Phase and to Earth (kV)	36	36	36
	Between Isolating Distance (kV)	36	36	36
Rated Lightning Impulse (1.2/50µs)	Phase to Phase and to Earth (kV)	95	95	95
	Between Isolating Distance (kV)	95	95	95
Rated Frequency (Hz)		50/60	50/60	50/60
Rated Short Time Withstand (kA)		31.5	40	40
Rated Peak Value Withstand Current (kA)		82	104	104
Rated Duration Time for Short Circuits (s)		2	2	2
Breaker Weight (lbs)		375 (170 kg)	419 (190 kg)	485 (220 kg)
<b>Dimensions - inches</b>				
Weight (lbs) <sup>1</sup>		2095 (950 kg)	2183 (990 kg)	2866 (1300 kg)
Height - inches (h)		95 (2413 mm)	95 (2413 mm)	95 (2413 mm)
Width - inches (w)		36 (914 mm)	36 (914 mm)	36 (914 mm)
Depth - inches (d)		94 (2387 mm)	94 (2387 mm)	94 (2387 mm)

<sup>1</sup> SecoGear weights for 1200A and 2000A breakers are shown with two-high breaker configuration.

## SecoGear Compartments

Normal Service Conditions	
Operating Temperature	-22°F to 104°F (-30°C to 40°C)
Storage Temperature	-22°F (-30°C)
Relative Humidity	≤ 95%
Altitude	Up to 3300ft (1000m) above sea



A = Main Busbar Compartment  
 B = Circuit Breaker Compartment  
 C = Cable Compartment  
 D = Front Doors

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