



# LineBOSS™ GBS

15 kV - 69 kV Sidebreak Type,  
FUSED/GROUNDING SWITCH  
**SPECIALTY SWITCH**

The **LineBOSS™** loadbreak grounding switch, **GBS**, is uniquely designed to provide loadbreak, open gap clearances and line grounding for applications in substations or pole line switches. The GBS is available for two arm substation construction with switch bases manufactured to adapt to existing structures, or factory unitized on a single steel crossarm. The GBS is available with fused disconnects for additional system safety requirements. Control mechanisms are built with safety key interlocks to prevent the isolator (loadbreak) switch and the grounding switch from errant closure of both switches.

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## STANDARD FEATURES

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Continuing the **INERTIA LineBOSS™** product line, the GBS is made to ANSI and Inertia standards to provide the most rugged switch available with the following features:

- Solid platform with a 1/4" thick steel base
- All ferrous components are hot dip galvanized
- Insulators are station post insulators either silicone or porcelain with 3" bolt circle
- All components in the current path through the switch are substation grade copper, silver-plated throughout
- Terminal pads are tin-plated for compatibility with all types of commonly used connectors copper, tinned copper, aluminum, bronze etc.)
- Contact clips are reverse loop design for greater contact force during high momentary currents
- Loadbreak options from arc whips, AmpRupter™ expulsion tube interrupter and the AmpVac™ vacuum bottle interrupters.

The GBS shares all of the features of the **LineBOSS™** conventional sidebreak switch. See **LineBOSS™** LBS Features & Benefits for additional information.

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## SWITCH RATINGS:

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Voltage Class:           15 kV, 25 kV, 35 kV, 46 kV & 69 kV  
Continuous Current Class:   600 A, 900 A & 1200 A

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## STANDARD CONFIGURATIONS

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- Pole mounted for distribution applications
- Frame mounted for substation applications



# LineBOSS™ Fused/Grounding Switch Selection Guide

**LineBOSS™ Unitized Gang Switch** → **FG16SLSH1123+SXXX**

Fused Grounding Switch = FG  
 Fused Switch = F  
 Grounding Switch = G

For Increased Corrosion Resistance:  
 Add "T" for ARMORGALV®

**Voltage Class:** 15.5 kV (110 kV BIL) = 1  
 25.8 kV (150 kV BIL) = 2  
 38.0 kV (200 kV BIL) = 3  
 48.0 kV (250 kV BIL) = 4  
 72.5 kV (350 kV BIL) = 5

**Current Rating:** 600 A = 6  
 900 A<sup>1</sup> = 6  
 900 A<sup>2</sup> = 9  
 1200 A = 1

**Insulator Type:**  
 Polymeric Silicone<sup>3</sup> = S  
 Porcelain<sup>3</sup> = P  
 For Increased Insulator Creepage:  
 Add "1" for +1 voltage class  
 Add "2" for +2 voltage class

**Interrupter Type:**  
 Amprupter, Loadbreak<sup>3</sup> = L  
 ArcWhip, Quick-break<sup>3</sup> = Q  
 Vacuum: 38 kV = V3  
 48 kV = V4  
 72.5 kV = V7  
 No Interrupter = X

**Grossarm Type:**  
 Aluminum = A  
 Fiberglass = F  
 Galv. Steel = S  
 No Xarm = X  
 Customer specified loading (call factory).

**Mounting Configuration:**  
 Horizontal Center Mount = C  
 Horizontal Upright = H  
 Riser = R  
 Underarm Horizontal = U  
 Add "G" for 36" Climbing Space  
 Add "S" for Substation (H-Frame) See Substation/H-Frame Chart.

**Control Location:**  
 Specify the quadrant by number, where the control is to be located. See Control Options Chart.

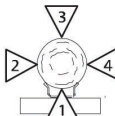
**Control Rod Type:**  
 Reciprocating (⌈⌋) = 1  
 1-3/4" Square Fiberglass = 1  
 1" Round Fiberglass = 2  
 3/4" Galvanized Pipe = 3  
 1" Galvanized Pipe = 4  
 Torsional (⌋) = 6  
 1 1/2" Galvanized pipe = 6

**Control Mechanism:**  
 Reciprocating Handle (⌈⌋) = 1  
 Torsional handle (⌋) = 2

**Fuse Type:**  
 SM = S  
 Specify Mfg. and Model#.

**Control Rod Length:**  
 30 ft. (Standard) = 3  
 Specify (10' Sections) = \_\_  
 See Options Chart for insulated section.

**Version**  
**Current Rating**

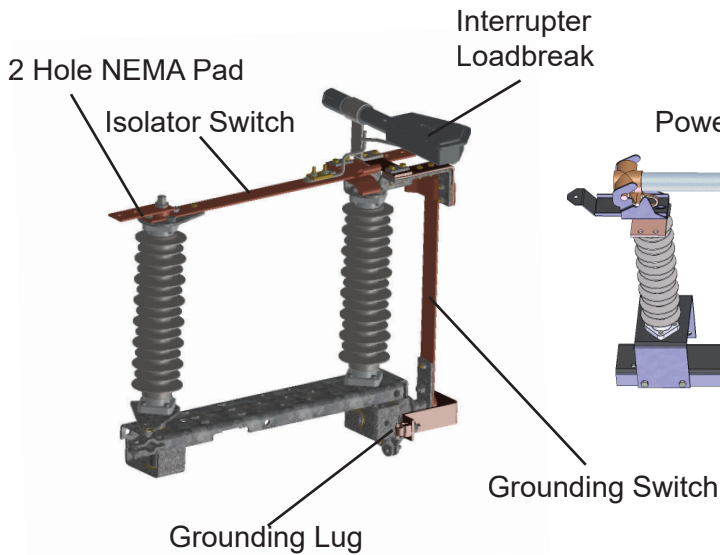


<sup>1</sup> 900 A (Temp Rise: 30°C Momentary: 40 kA)  
<sup>2</sup> 900 A (Temp Rise: 30°C Momentary: 51 kAANSI)  
<sup>3</sup> Voltage Class: 15.5 to 48.0 kV = 3.0" BC, 72.5 kV = 5.0" BC

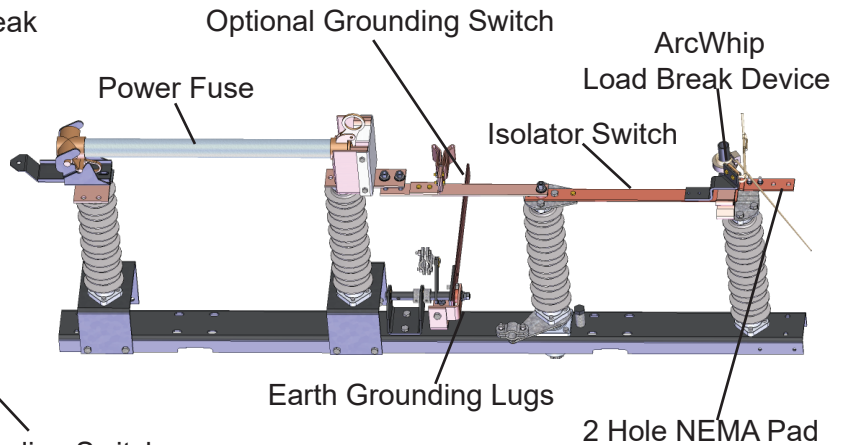
**Note: Consult the factory for any options not listed, including; arrestors, sensors, support brackets etc..**

## LineBOSS™ Standard Configurations

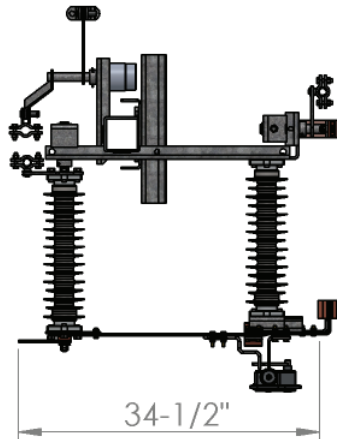
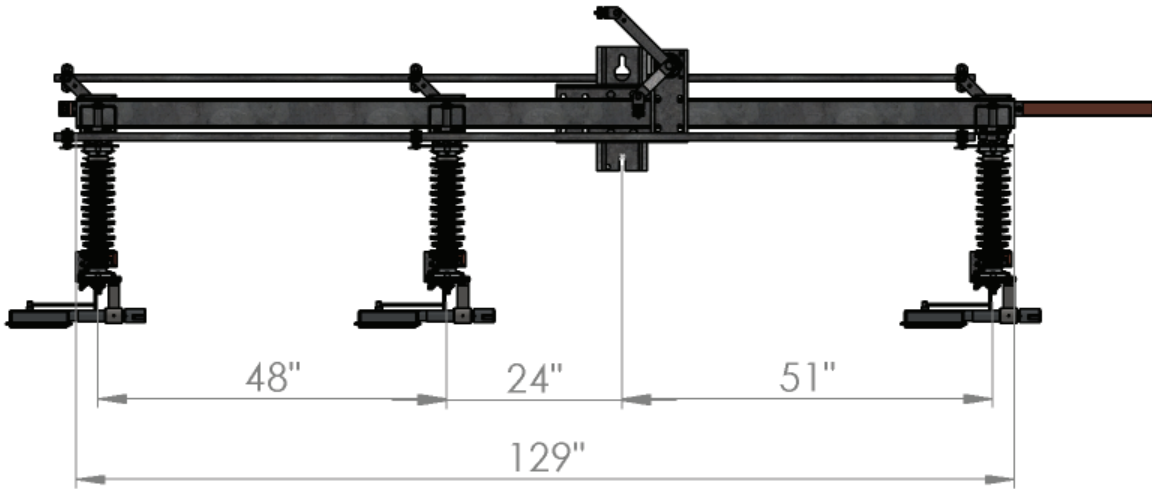
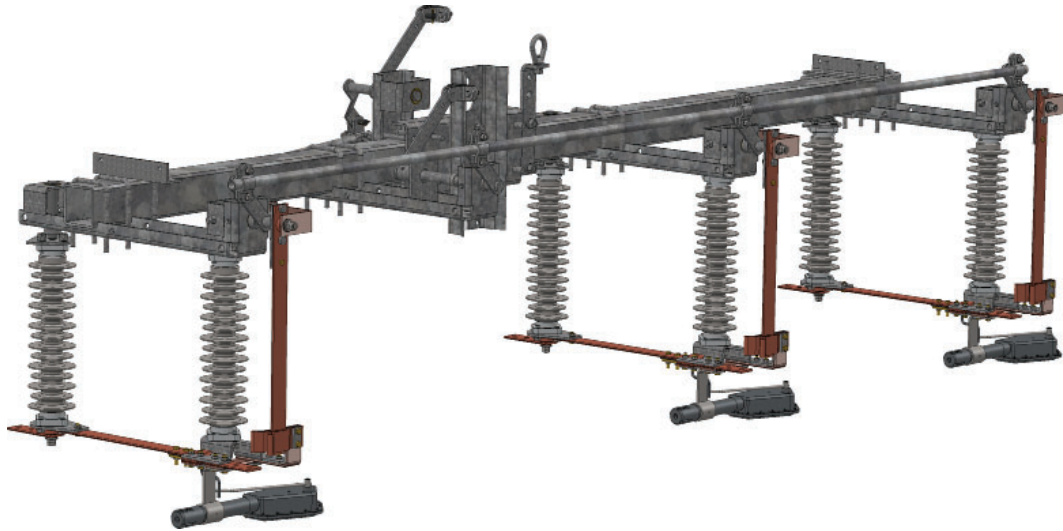
### Single Phase Grounding Switch



### Single Phase Fused Grounding Switch




# 38 kV Horizontal Underarm Grounding Switch Dimensions



This drawing is for illustrative purposes only and therefore; may, or may not reflect the current revision of this drawing. Please request the current revision from the factory upon quote.

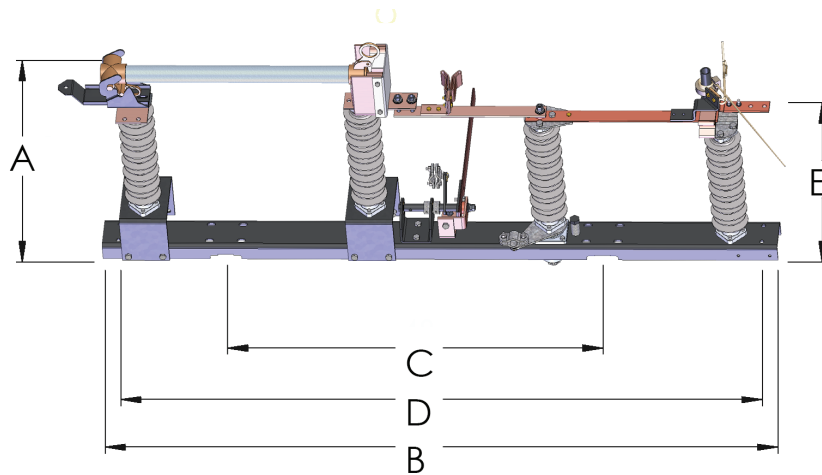
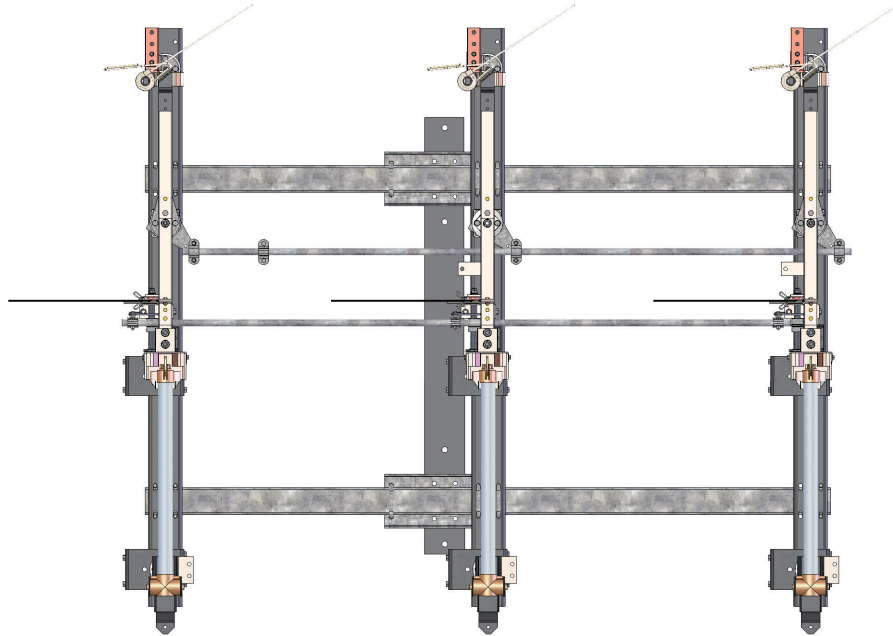
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	Materials: N/A	Description: 38 kV Horizontal Underarm Grounding Switch Dimensions	
	Finish: N/A		
	Scale: NTS		
	Drawn By: N/A	Drawing No.:	Revision:
	Date: N/A	9330-13M	




# 38 kV Fused Grounding Switch Dimensions



MINIMUM PHASE SPACING					
Voltage Rating	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
15 kV	20"	66.5"	36"	62.5"	12"
25 kV	24"	72.5"	36"	68.5"	16"
38 kV	28"	86"	48"	82"	20"

This drawing is for illustrative purposes only and therefore; may, or may not reflect the current revision of this drawing. Please request the current revision from the factory upon quote.

	Materials: N/A	Description: Fused Grounding Switch (38 kV), ArcWhip, Re- cip. Ctrl., Dimensions	Revision: <b>02</b>
	Finish: N/A		
	Scale: NTS	Drawing No.: <b>6400GM</b>	
	Drawn By: N/A		
	Date: N/A		

