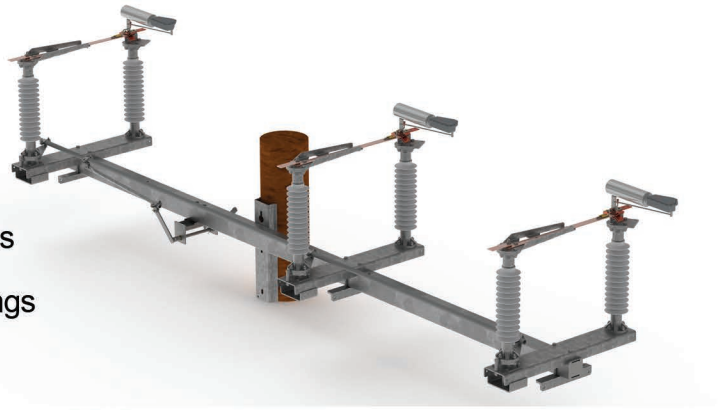
LineBOSS™

MacLean™ POWER SYSTEMS

46 kV – 69 kV Transmission Sidebreak Switches

- Unitized Construction: Steel or Fiberglass Crossarms
- Factory Adjusted, Ready to Mount
- Reverse Loop, Silver Plated Copper Jaw Contacts
- Tinned Copper Two-hole and Four-hole Terminal Pads
- Maintenance-free, Sealed, Stainless Steel Ball Bearings
- All Ferrous Components Are Hot Dip Galvanized
- Meets or Exceeds All Applicable NEMA, IEEE, ANSI, and IEC Standards



The LineBOSS™ 48 kV – 72.5 kV sidebreak switches are the lowest "cost to own" switches available today. The actual configuration is delivered fully unitized and modularized for fast, simple and easy field installation. INERTIA switches are hung on the pole in hours, not days. Unbalanced conductor load or seasonal temperature changes can create line sag leading to contact misalignment on other style switches; this maintenance headache is eliminated by the LineBOSS™ sidebreak switch. INERTIA's LineBOSS™ sidebreak switches low maintenance design ensures reliable performance for years to come.

ArmorGalv® coated ferrous components available for increased corrosion resistance.

Specifications:

Voltage Class: 46 kV (48 kV Max.)
69 kV (72.5 kV Max.)
Continuous Current Class: 600, 900, 1200 Amps
Momentary Current: 600 A: 40,000 A rms, 10 cycles
25,000 A rms, 3 seconds
900 A: 51,000 A rms, 10 cycles
32,000 A rms, 3 seconds
1200 A: 70,000 A rms, 10 cycles
44,000 A rms, 3 seconds

Configurations:

Horizontal Upright
Horizontal Center Mount
Vertical Phase over Phase
Riser Switch
In-Line Tap
Tap switch 1,2,3, 4 way
Triangle
Horizontal Pole Top
Vertical Twin Circuit
Delta (1L, 2R)
Vertical Tiered Outboard
Tiered Outboard
Avian/Wildlife Protection

Options:

Insulator Type:
Silicone or Porcelain
Control Options:
Reciprocating
Torsional
Motorized Control:
MSO, MSO-SEL
Loadbreak Device:
ArcHorn
ArcWhip™
High Speed Break, HSB
High Speed Sectionalizer
Vacuum Interrupter V, V2, & V3

To order or request additional product information please contact us at: 800-791-9997 or sales@macleanpower.com

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Made in USA

ISO 9001:2015 Certified
SAL-2017 REV. 07

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46 kV – 69 kV Transmission Sidebreak Switches

Selection Guide:

L 6 1 S V 3 S C 1 1 3 3

LineBOSS™ Unitized Sidebreak Switch
ARMORGALV® = LT

Voltage Class: 48.0 kV (250 kV BIL) = 4
72.5 kV (350 kV BIL) = 6

Current Rating: 600 A = 6
900 A[1] = 6
900 A[2] = 9
1200 A[3] = 1

Insulator Type:
Polymeric Silicone[4] = S
Porcelain[4] = P
For Increase insulator creepage:
Add "1" for +1 voltage class

Interrupter Type:
ArcHorn = A
ArcWhip, Quick-break = Q
High Speed Whip = SH
Sectionalizer = SV
Vacuum: 15.5 - 38.0 kV = V
48 kV = V4
72.5 kV = V7
No Interrupter = X

Crossarm Type:
Galv. Steel = S
No Xarm = X
Customer specified loading (call factory).

Mounting Configuration:

Vertical (Tiered Outboard)	=	B
Horizontal Center Mount	=	C
Delta (Pole Top)	=	D
Horizontal Upright	=	H
Vertical (Inline)	=	L
Riser	=	R
Twin Circuit	=	T
Underarm Horizontal[6]	=	U
Vertical (Phase over Phase)	=	V
Tap Switch[7]: 1-way	=	1W
2-way	=	2W
3-way	=	3W

Add "S" for Substation (H-Frame)[5] See Substation/H-Frame Chart.

Control Rod Length:
30 feet (standard) = 3
Specify (10' Sections) = __
See Options Chart For Insulated Section.

Control Rod Type:
Reciprocating (⇧⇩)
1 3/4" square fiberglass = 1
1" galvanized pipe = 4
Torsional (↻)
1 1/2" galvanized pipe = 6

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

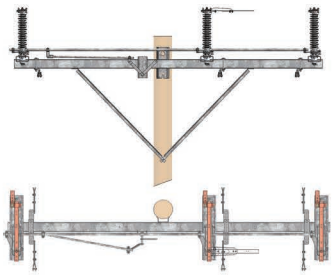
Control Mechanism:
Reciprocating handle (⇧⇩) = 1
Torsional handle (↻) = 2
Motorized Operator = M

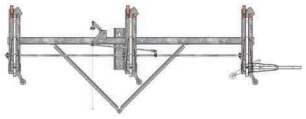
[1] 900 A (Temp Rise: 30°C Momentary: 40 kA)
[2] 900 A (Temp Rise: 30°C Momentary: 51 kA ANSI)
[3] 1600 A (IEEE1247 Temp. Rise)
[4] Voltage Class: 48.0 kV = 3.0" BC, 72.5 kV = 5.0" BC
[5] Substation Config. available only in: "CS", "HS", "RS", "US"
[6] Avian Protection.
[7] Consult Factory for Unitized Switch.

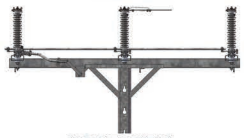
*Note: Not all configurations are possible. Some design limitations may apply. Torsional control mechanisms are not available in all configurations. Please contact us to see if your specific design configuration(s) is available.

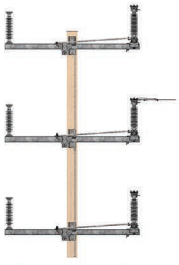
ENG-2020 TRANSMISSION SELECTION GUIDE REV 2 RELEASE DATE: 4-29-2020

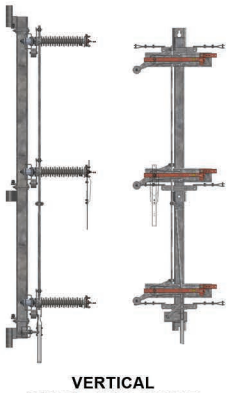
Standard Configurations:

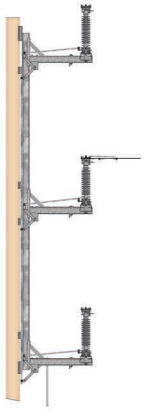

HORIZONTAL UPRIGHT


RISER


HORIZONTAL CENTER MOUNT


TWIN CIRCUIT


VERTICAL PHASE OVER PHASE


VERTICAL TIERED OUTBOARD

1-WAY

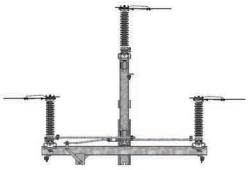
2-WAY

3-WAY

3-WAY 120°

4-WAY

TAP SWITCH


DELTA

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