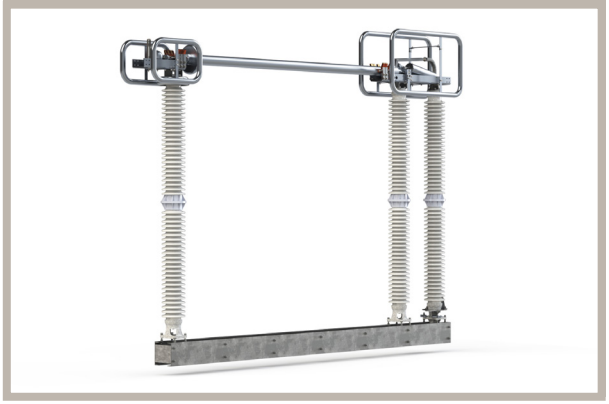
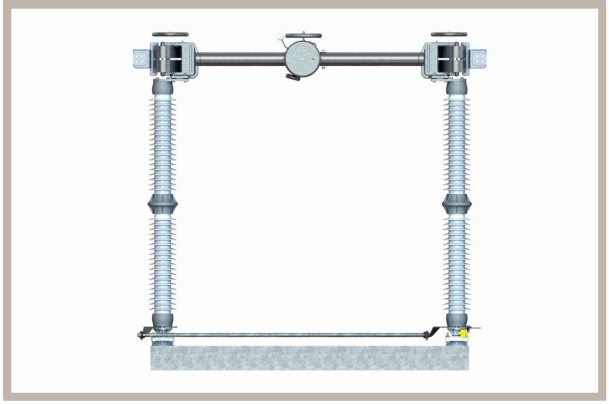
Southern States
The Quality Name in High Voltage Switching

Group Operated Switch Application Guide

Vertical Break



Center Break

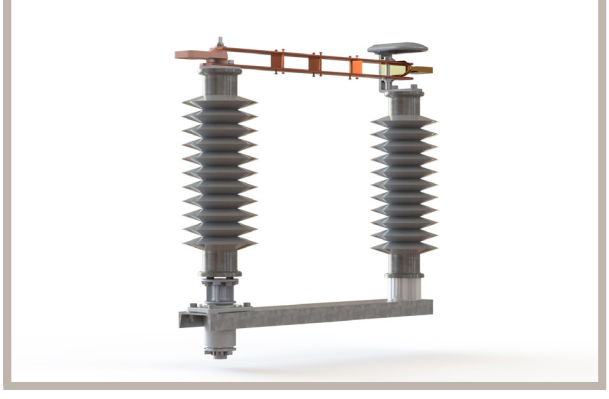


Center Break “V”

Double End Break

Double End Break “V”

Single Side Break



Application Chart

Max Voltage / BIL	Recommended Insulator(s)	Switch Configuration	1200A	2000A	3000A
15.5 / 110	TR 205 / TR 225	Single Side Break Center Break "V" Vertical Break Center Break	SSB-T, L or SSB-A CBL-T EV, EV-2, EV-H, EVB, or TA-OC ECB-T	SSB-T or L — EV-2, EV-H, EV-2H, or CVB-2 ECB-T	— — EV-2 or EV-2H P
27 / 150	TR 208 / TR 227	Single Side Break Center Break "V" Vertical Break Center Break	SSB-T, L, or SSB-A CBL-T EV, EV-2, EV-H, EVB, or TA-OC ECB-T	SSB-T or L — EV-2, EV-H, EV-2H, or CVB-2 ECB-T or P	— — EV-2 or EV-2H P
38 / 200	TR 210 / TR 231	Single Side Break Center Break "V" Vertical Break Center Break Double End Break	SSB-T, L, or SSB-A CBL-T EV, EV-2, EV-H, EVB, or TA-OC EC-1 or ECB-T RDA-1	SSB-T or L — EV-2, EV-H, EV-2H, or CVB-2 EC-1, EC-2, ECB-T, or P RDA-1	— — EV-2 or EV-2H EC-1 EC-2, or P RDA-1
48.3 / 250	TR 214 / TR 267	Single Side Break Center Break "V" Vertical Break Center Break Double End Break	SSB-T, L, or SSB-A CBL-T EV, EV-2, EV-H, EVB, or TA-OC EC-1 or ECB-T RDA-1	SSB-T, or L — EV-2, EV-H, EV-2H, or CVB-2 EC-1, EC-2, ECB-T, or P RDA-1	— — EV-2 or EV-2H EC-1, EC-2, or P RDA-1
72.5 / 350	TR 216 / TR 278	Single Side Break Center Break "V" Vertical Break Center Break Double End Break	SSB-T, L, SSB-A, or ES-1, EC-1V, EC-2V, or CBL-T EV, EV-2, EV-H, EVB, or TA-OC EC-1 or ECB-T RDA-1	SSB-T, L, or ES-1 EC-1V or EC-2V EV-2, EV-H, EV-2H, or CVB-2 EC-1, EC-2, ECB-T, or P RDA-1	— EC-1V or EC-2V EV-2 or EV-2H EC-1, EC-2, or P RDA-1
123 / 550	TR 286	Single Side Break Center Break "V" Vertical Break Center Break Double End Break Double End Break "V"	ES-1 EC-1V or EC-2V EV, EV-2, EV-2H, or EVB EC-1 or P RDA-1 RDA-1V	ES-1 EC-1V or EC-2V EV-2, EV-2H, or CVB-2 EC-1, EC-2, or P RDA-1 RDA-1V	— EC-1V or EC-2V EV-2 or EV-2H EC-1, EC-2, or P RDA-1 RDA-1V
145 / 650	TR 288	Single Side Break Center Break "V" Vertical Break Center Break Double End Break Double End Break "V"	ES-1 EC-1V or EC-2V EV, EV-2, EV-2H, or EVB EC-1 or P RDA-1 RDA-1V	ES-1 EC-1V or EC-2V EV-2, EV-2H, or CVB-2 EC-1, EC-2, or P RDA-1 RDA-1V	— EC-1V or EC-2V EV-2 or EV-2H EC-1, EC-2, or P RDA-1 RDA-1V
170 / 750	TR 291	Center Break "V" Vertical Break Center Break Double End Break Double End Break "V"	EC-1V or EC-2V EV, EV-2, EV-2H, or EVB EC-1 or P RDA-1 RDA-1V	EC-1V or EC-2V EV-2, EV-2H, or CVB-2 EC-1, EC-2, or P RDA-1 RDA-1V	EC-1V or EC-2V EV-2 or EV-2H EC-1, EC-2, or P RDA-1 RDA-1V
245 / 900	TR 304 / TR 308	Center Break "V" Vertical Break Center Break Double End Break Double End Break "V"	EC-1V or EC-2V EV-1, EV-2 or EV-2H EC-1 or P RDA-1 RDA-1V	EC-1V or EC-2V EV-1, EV-2, EV-2H, or CVB-2 EC-1, EC-2, or P RDA-1 RDA-1V	EC-1V or EC-2V EV-1, EV-2, or EV-2H EC-1, EC-2, or P RDA-1 RDA-1V
362 / 1050	TR 312 / TR 316	Vertical Break Center Break Double End Break Double End Break "V"	EV-1, EV-2 or EV-2H — RDA-1 RDA-1V	EV-1, EV-2, or EV-2H EC-1 or P RDA-1 RDA-1V	EV-1, EV-2, or EV-2H EC-1 or EC-2 or P RDA-1 RDA-1V
362 / 1300	TR 324 / TR 367 (Radio free)	Vertical Break Center Break Double End Break Double End Break "V"	EV-1, EV-2 or EV-2H EC-1 RDA-1 RDA-1V	EV-1, EV-2, or EV-2H EC-1 RDA-1 RDA-1V	EV-1, EV-2, or EV-2H EC-1 or EC-2 RDA-1 RDA-1V
550 / 1550	Consult factory	Vertical Break Double End Break	EV-1 or EV-2H —	EV-1 or EV-2H RDA	EV-1 or EV-2H RDA
550 / 1800		Vertical Break Double End Break	EV-1 or EV-2H —	EV-1 or EV-2H RDA	EV-1 or EV-2H RDA
800 / 2050		Vertical Break Double End Break	EV-2H —	EV-1 or EV-2H RDA	EV-1 or EV-2H RDA

4000A	5000A
— — EV-2, EV-2H, or WAG-A P	— — WAG-A P
— — EV-2, EV-2H, or WAG-A P	— — WAG-A P
— — EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1	— — WAG-A EC-1 or P —
— — EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1	— — WAG-A EC-1 or P —
— EC-1V or EC-2V EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1	— — WAG-A EC-1 or P RDA-1
— EC-1V or EC-2V EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1 RDA-1V	— — WAG-A EC-1 or P RDA-1 RDA-1V
— EC-1V or EC-2V EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1 RDA-1V	— — WAG-A EC-1 or P RDA-1 RDA-1V
EC-1V or EC-2V EV-2, EV-2H, or WAG-A EC-1, EC-2, or P RDA-1 RDA-1V	— WAG-A EC-1 or P RDA-1 RDA-1V
EC-1V or EC-2V EV-1, EV-2, or EV-2H EC-1, EC-2, or P RDA-1 RDA-1V	— — EC-1 or P RDA RDA-V
EV-1, EV-2, or EV-2H EC-1, EC-2 or P RDA-1 RDA-1V	— EC-1 or P RDA RDA-V
EV-1, EV-2, or EV-2H EC-1 or EC-2 RDA-1 RDA-1V	— EC-1 RDA RDA-V
EV-1 or EV-2H RDA	— RDA
EV-1 or EV-2H RDA	— RDA
EV-1 or EV-2H RDA	—

Notes:

- *For continuous current ratings above 5000A, contact factory*
- *For other switch configurations, consult factory*
- *Blue indicates aluminum live part construction*
- *Red indicates copper live part construction*

Available Operators

Manual	**HOGO** (High Output Gear Operator) **Swing Handle**
Motor	VM-1
	VM-1 SE (Stored Energy)
	CM-4AE (For Circuit Switchers Operation)

Available Ground Switches

Model	Available kV Ratings	Momentary Current Rating
LH-6	15.5 - 145 kV	61 kA
EVG-1	15.5 - 550 kV	61 kA 70 kA 80 kA 100 kA 120 kA
EVG-2	15.5 - 345 kV	61 kA 70 kA 80 kA 100 kA 120 kA
ESD-63	72.5 - 245 kV	100 kA
TV-70	123 - 800 kV	120 kA

SWITCH INTERRUPTER ATTACHMENTS

Switch Interrupter Selection Chart

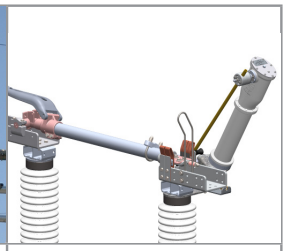
PRODUCT	LOAD BREAKING	LOOP SPLITTING	LINE / CABLE DROPPING	TRANSFORMER MAGNETIZING
Standard Arcing Horn			X	X
Quick Break Whip			X	X
High Speed Whip (HSW)			X	X
LBI™	X	X	X	X
LLS®	X	X	X	X

Standard Arcing Horn

Quick Break Whip

High Speed Whip (HSW)

LLS® LOAD AND LINE SWITCHER FAMILY OVERVIEW



	LLS®-I		*LLS*®-II 2000		*LLS*®-II 3000		*LBI*™
MAXIMUM VOLTAGE RATING	**38 kV - 72.5 kV**	**123 - 245 kV**	**72.5 - 170 kV**	**245 kV**	**72.5 - 170 kV**	**245 kV**	**38 kV - 72.5 kV**
LOAD BREAKING CAPABILITY	2000 A	N/A	2000 A		3000 A	2000 A	1200 A - 2000 A
LINE DROPPING CAPABILITY	300 A	N/A	300 A	200 A	300 A	200 A	70 A
LOOP SPLITTING CAPABILITY	2000 A	2000 A*	2000 A		3000 A		2000 A

* The LLS®-I can be utilized for loop splitting applications to 245 kV as long as the transient recovery voltage does not exceed 30 kV

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