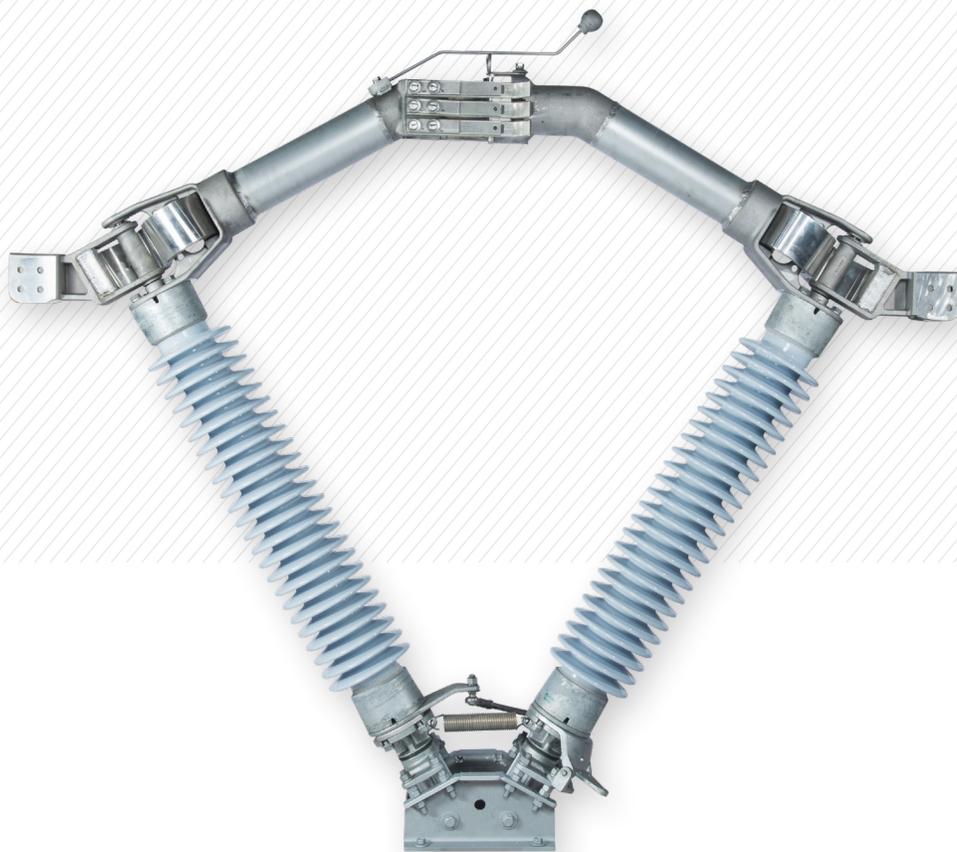


TYPE AGCH5V

ALUMINUM CENTER
BREAK VEE SWITCH



Product Information

AGCH5V Aluminum Center Vee Break

The AGCH5V is a two insulator, side opening outdoor air disconnect switch constructed primarily of aluminum. Operation is accomplished by the rotation of two insulators making the center break switch the easiest operating of all group operated switches. Proven by years of field experience, this switch takes full advantage of unique construction methods to provide both simple operation and long-term dependability. The AGCH5V is commonly used in threephase line or substation applications such as transformer or line disconnecting, breaker isolating, bypassing or bus sectionalizing, Operation of the AGCH5V may be accomplished by either manual control or by motor operator.

Features

- **Testing.** The AGCH5V has been extensively tested to meet or exceed current IEEE standards. A comprehensive test brochure is available outlining electrical and mechanical design test conducted on the AGCH5V.
- **Contacts.** The AGCH5V is supplied with line high pressure silver-to-silver jaw contacts producing the highest conductivity initially and over time. The contact fingers, fabricated from hard drawn copper, are silver plated, then electro-tin plated. The male contact, also of hard drawn copper has a brazed silver overlay and is electro-tin plated. These methods and materials used in the application of the silver provide surfaces of differing hardness with anti-galling properties, resulting in minimal wear over years of operation.
- **Blade.** The blade is constructed of heat-treated aluminum tubing with heat-treated aluminum castings welded to hinge and jaw ends.
- **Bearings.** The AGCH5V incorporates rugged switch bearings consisting of stainless-steel balls, utilizing stainless steel balls, stainless steel races, and ductile iron housings and rotors. Factory adjusted stops are provided with the bearing for ease of synchronization during installation.
- **Bases.** Hot dipped structural steel channel is used for the construction of the switch base. Leveling studs are provided on the bearings for insulator alignment. Bases and base mounting dimensions can be customized to your specifications and structure.
- **Laminated shunt.** The laminated conductor is constructed of commercially pure aluminum strip, which does not work harden during operation. Extensive mechanical, electrical, and environmental testing along with years of field experience, prove this approach to current transfer superior to conventional enclosed or open hinge contact design. Transfer of the current at the hinge end of the blade is accomplished with a welded aluminum laminated conductor, precisely formed and assembled to give thousands of trouble-free operations. This eliminates bolted or sliding pressure connections, threaded joints, or high-pressure contacts, enabling ease of operation. Welded connections create a single conductive path from the hinge terminal pad to the jaw end of the blade.

Accessories

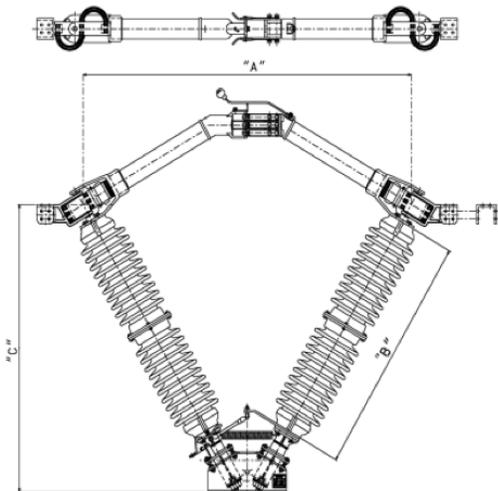
- Grounding switch: Through 100kA momentary
- Auxiliary Switches: Up to 16 contact decks are standard
- Outriggers: Custom designed to your application
- Connectors: Can be added to your switch order upon request

Load Break Devices

- Arcing Horn: Minimum standard on all switches
- High speed quick Whips
- TECORupters
 - Loop Split
 - Full Load



Configurations

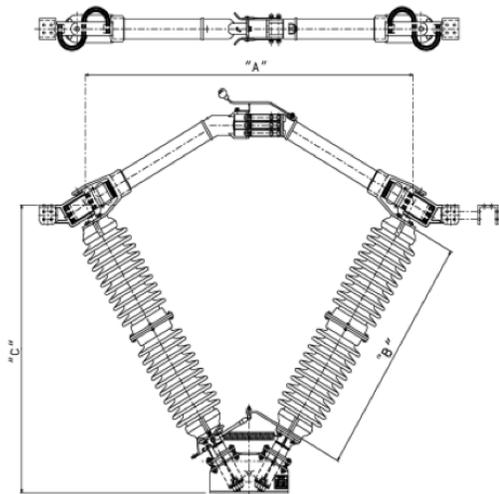


- DIMENSIONS SHOWN IN INCHES - WEIGHT SHOWN IN POUNDS (INSULATORS INCLUDED)
- 15-72.5 kV 3" BOLT CIRCLE STATION POST INSULATORS
- 72.5-245 kV 5" BOLT CIRCLE STATION POST INSULATORS
- DIMENSIONS NOT FOR CONSTRUCTION PURPOSES
- CONTACT FACTORY FOR CERTIFIED PRINTS

CATALOG NO.	DIMENSIONS			STD MTG	WEIGHT
	A	B	C		1 POLE
AGCH5V-01512	21 15/16	10	21 1/2	8 1/4 X 12	112
AGCH5V-01520	21 15/16	10	21 15/16	8 1/4 X 12	141
AGCH5V-02712	25 15/16	14	24 15/16	8 1/4 X 12	151
AGCH5V-02720	25 15/16	14	25 3/8	8 1/4 X 12	165
AGCH5V-03812	29 15/16	18	28 7/16	8 1/4 X 12	176
AGCH5V-03820	29 15/16	18	28 7/8	8 1/4 X 12	198
AGCH5V-04812	33 15/16	22	31 15/16	8 1/4 X 12	250
AGCH5V-04820	33 15/16	22	32 1/4	8 1/4 X 12	270
AGCH5V-07212	41 15/16	30	38 7/8	8 1/4 X 12	262
AGCH5V-07220	41 15/16	30	39 1/4	8 1/4 X 12	279
AGCH5V-07220-5	43 1/2	30	39 13/16	8 1/4 X 12	415
AGCH5V-07220H	45 3/4	30	41 1/2	8 1/4 X 12	425
AGCH5V-07230	50 1/4	30	41 1/2	8 1/4 X 12	435
AGCH5V-12312	76	45	54	8 1/4 X 12	480
AGCH5V-12320	60 3/4	45	54 1/2	8 1/4 X 12	497
AGCH5V-12330	65 1/4	45	54 1/2	8 1/4 X 12	545
AGCH5V-12340	71	45	56 1/2	8 1/4 X 12	810



Configurations Cont.



- DIMENSIONS SHOWN IN INCHES - WEIGHT SHOWN IN POUNDS (INSULATORS INCLUDED)
- 5-72.5 kV 3" BOLT CIRCLE STATION POST INSULATORS
- 72.5-245 kV 5" BOLT CIRCLE STATION POST INSULATORS
- DIMENSIONS NOT FOR CONSTRUCTION PURPOSES
- CONTACT FACTORY FOR CERTIFIED PRINTS

CATALOG NO.	DIMENSIONS			STD MTG	WEIGHT 1 POLE
	A	B	C		
AGCH5V-14512	69 3/4	54	61 7/8	8 1/4 X 18	489
AGCH5V-14520	69 3/4	54	62 1/4	8 1/4 X 18	517
AGCH5V-14530	78	54	62 1/4	8 1/4 X 18	905
AGCH5V-14540	80	54	64 7/16	8 1/4 X 18	733
AGCH5V-17012	81 1/2	62	71	8 1/4 X 18	508
AGCH5V-17020	81 1/2	62	71 3/8	8 1/4 X 18	569
AGCH5V-17030	86	62	71 3/8	8 1/4 X 18	1185
AGCH5V-17040	88	62	71 3/8	8 1/4 X 18	1295
AGCH5V-24512	106	80	89 3/4	12 X 24	1750
AGCH5V-24520	106	80	90 3/16	12 X 24	1805
AGCH5V-24530	106 1/2	80	90 1/4	12 X 24	1910
AGCH5V-24540	*	*	*	*	*



Numbering Sequence

AGCH5V	V	A	I	P	TR	LB	OP
	015	12	SIP	3	SEE CHART	AH	N
	027	20	SEP	5		QB	SH
	038	30	NA			LI	WG
	048	32	CS			N	MO
	072	40	INC			CS	P
	123						SH-P
	145						WG-P
	170						
	245						

Variant Configuration Key

V - Voltage (kV)	TR - Insulator TR
A - Current (A)	LB - Load Break Device
I - Insulator Ship Method	OP - Operator
P - Pivot Size (inches)	

Insulator Shipping Methods

- SIP** - SHIP IN PLACE
- SEP** - SHIPPED SEPARATE
- NA** - INSULATORS NOT INCLUDED
- CS** - CUSTOMER SUPPLIED
- INC** - WITH INSULATORS BULKED PACKED

Load Break Options

- AH** - ARCING HORN
- QB** - QUICK WHIPS
- N** - NONE
- CS** - CUSTOMER SUPPLIED
- LI** - TECORUPTERS OR OTHER
 - **FL** - FULL LOAD
 - **LS** - LOOP SPLIT

Operator Options

- N** - NONE SUPPLIED
- SH** - SWING HANDLE
- WG** - WORM GEAR
- MO** - MOTOR OPERATOR
- P** - MOTOR OP PROVISIONS
- SH-P** - MOTOR OP PROVISIONS SH
- WG-P** - MOTOR OP PROVISIONS WG

Example - AVR-12320- SIP5286AHWG

VOLTAGE (kV)		INS TR
NOM	BIL	
15.5	110	205
27	150	208
38	200	210
48.3	250	214
72.5	350	216
123	550	286
145	650	288
170	750	291
245	900	304

CURRENT (A)			
CONT	PEAK	MOM	3 SEC
1200	99,000	61,000	38,000
2000	164,000	100,000	63,000
3000	195,000	120,000	75,000
4000	195,000	120,000	75,000





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