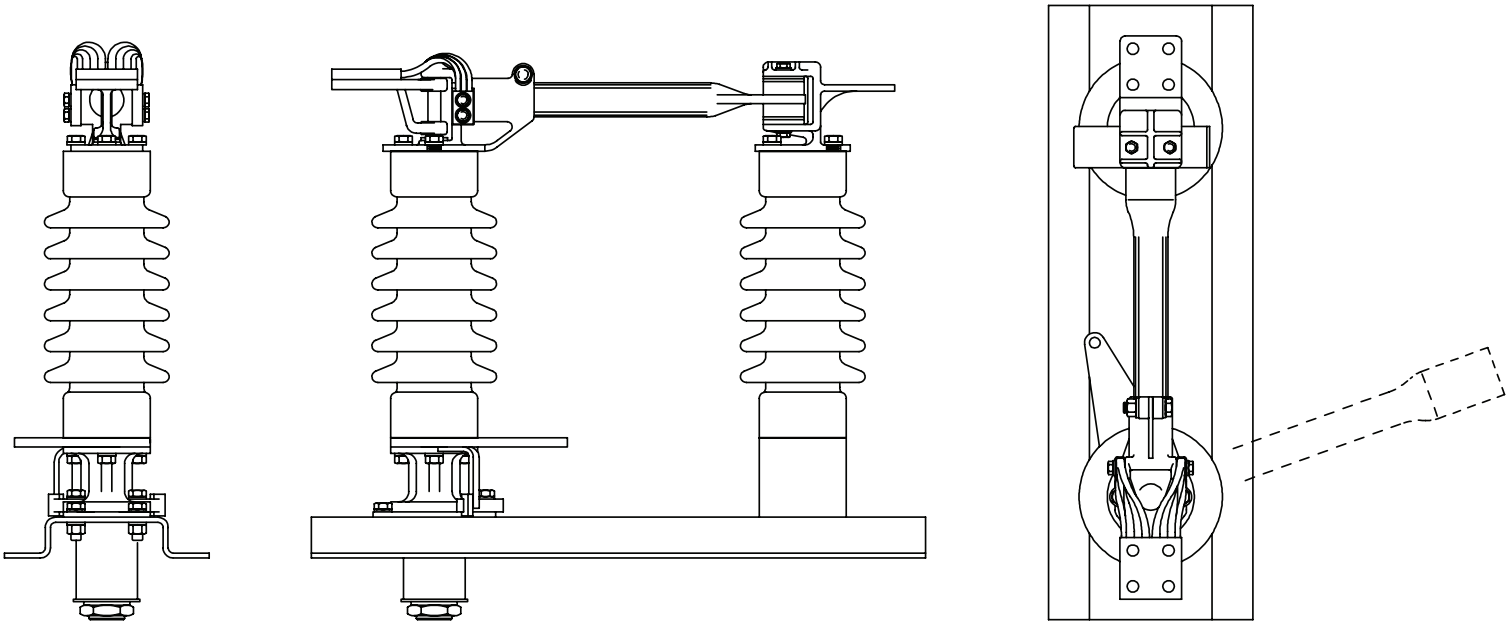
MindCore Technologies

COPPER SIDE BREAK DISCONNECT SWITCH

7,5 kV. TO 161 KV.
1200 AMP

CSB-12



FEATURES

- 1200 A, 61 kA rating
- Copper current carrying parts.
- Silver-to-silver, high pressure wiping contacts.
- Flexible braid current transfer at hinge end.
- Meets or exceeds “ANSI” requirements.
- Weatherproof, corrosion resistant bearings.
- Extra rigid base.
- Can be fitted with arcing horns, arc restrictors or load break device.
- Easily erected.
- Easily adjusted.

DESCRIPTION

The **MindCore Technologies** CSB-12 is a 1200 Amp horizontal side break switch. It has two stacks of insulators: the fixed stack supports the jaw; the other stack supports the blade and rotates to operate the switch. The blade swings through 70 degrees, either clockwise or counterclockwise, in a plane parallel to the switch base.

APPLICATION

The CSB-12 switch is a versatile, multi-use switch which can be used in substations for isolating, by-passing or sectionalizing. It is also commonly used as a line sectionalizer, a line tap-off switch or as a selector switch when a load is supplied by a preferred and an alternate feeder.

1845 JEAN-MONNET, TERREBONNE QC J6X 4L7 TEL.: 450.477.5959 FAX: 450-477.2220 www.mindcoretech.com

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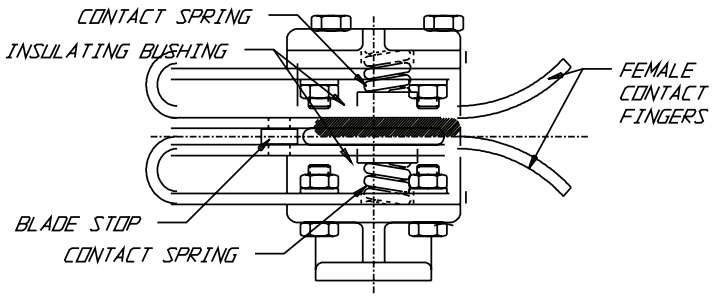
The poles may be mounted in any of four ways: horizontal upright, inverted, vertical or semi-inverted.

The three poles can be arranged in the conventional horizontal arrangement, or in a vertical configuration. Because the blade travels in a plane parallel to the base, overhead clearances are minimal.

CONTACTS AND BLADE



A copper alloy housing supports the reverse loop, silver plated copper female contacts. These female contacts are backed by insulated stainless steel compression springs which apply pressure to the blade providing low resistance current transfer. As the blade enters, it forces the contacts apart, thus providing a wiping and self-cleaning action of the contacts.

Arcing horns, arc restrictors and load break devices can optionally be supplied when specified.

TERMINAL PADS

A 4 hole NEMA terminal pad is provided at both the hinge and jaw ends of the CSB-12.

INSULATORS

The CSB-12 switch is supplied with grey station post insulators. Other types can be accommodated on request.

BEARINGS

The bearing assembly consists of two stainless steel ball bearings in a weather sealed aluminum alloy housing. A low temperature Microgel grease is used with a corrosion inhibitor.

BASES

A rigid base is essential to good switch operation. When rigidity is lacking, difficulty can be experienced keeping the switch properly adjusted. For these reasons, **MindCore Technologies** switch bases are built with exceptional rigidity.

Standard width switch bases have mounting hole centres of 3" (76mm) or 8 ¼" (210mm), the switch bases are fabricated by forming ¼" or 6mm steel plate into a rigid base.

Other types can be accommodated on request.

OPERATING CONTROLS

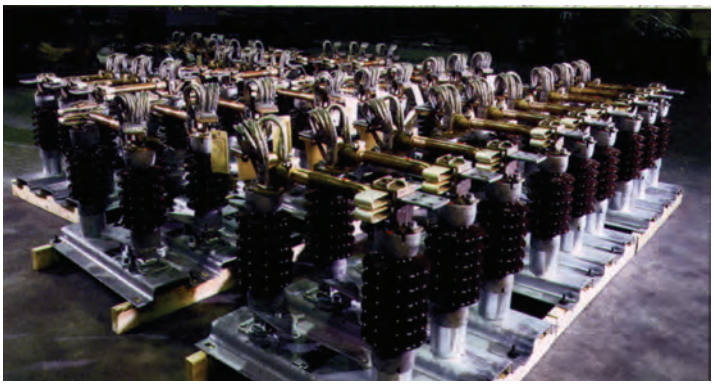
Controls are normally arranged to allow positive over-centre toggle, locking in both the open and the closed positions. The CSB-12 switch may be operated either manually or by a motor operator.

GROUND SWITCH

A three pole ground switch may be fitted to either end of an CSB-12 switch. This switch features high momentary, high pressure contacts and an copper blade. The ground switch can be positively interlocked with the main CSB-12 switch to prevent inadvertent grounding of the circuit.

FIELD ADJUSTMENTS

To the user the cost of a switch includes erection and adjustments. **MindCore Technologies** has done everything possible to make this work simple and time saving. Each pole has easily adjustable bearing stops. Switches rated at 69 kV have insulator jacking bolts to align the insulator stacks. The controls also, have been designed to simplify and speed up the installation process.



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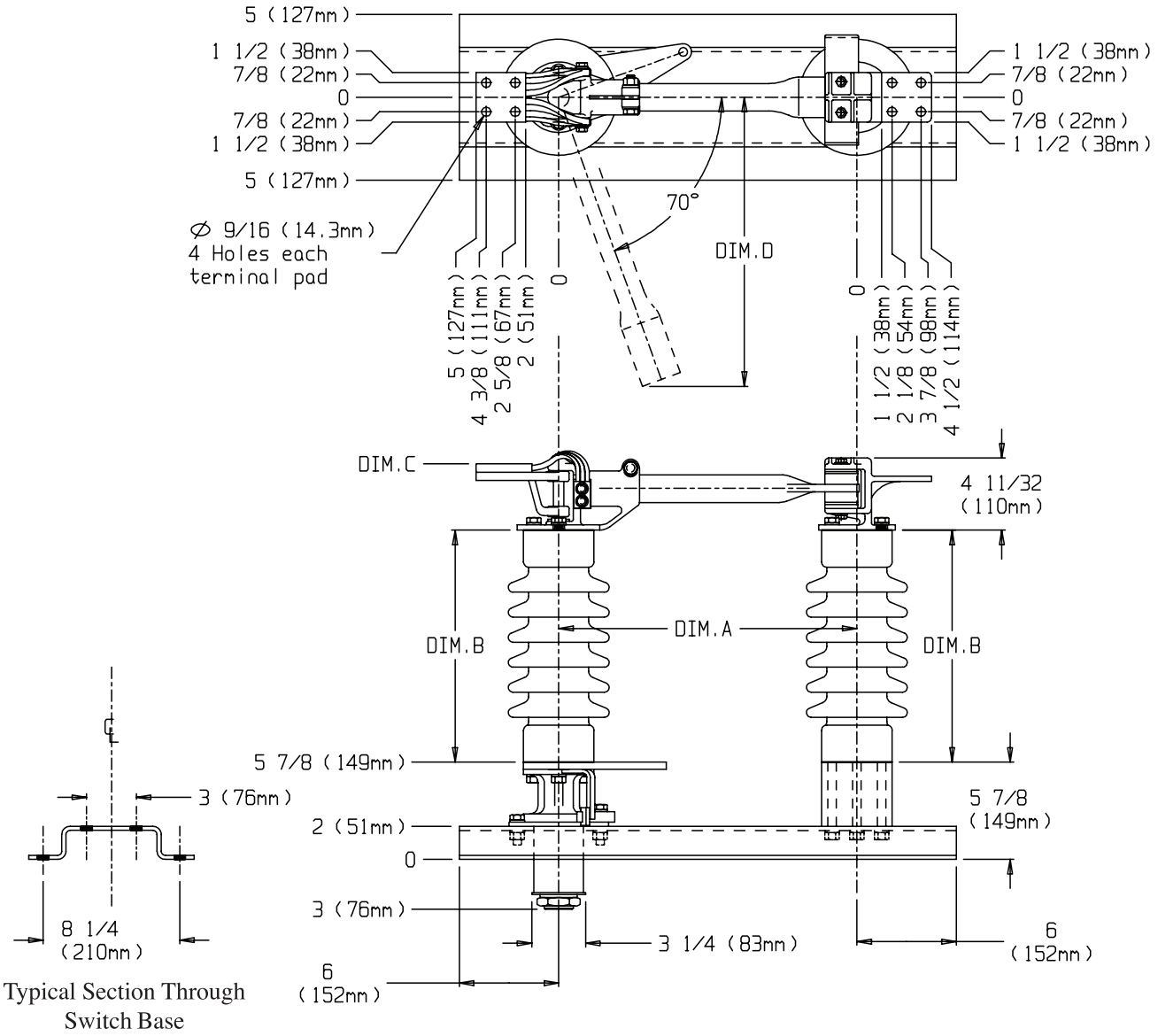

Typical Section Through Switch Base

Ratings						Dimensions & Weights									
kV.			Amperes		Insulator T.R. No.	Dim. A		Dim. B		Dim. C		Dim. D		Single Pole Weight	
Nom.	Max.	BIL.	Cont.	MOM(kA)		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Lbs	kg.
7.5	8.25	95	1200	61	202	15	381	7.5	191	17.37	441	14.62	371	91	42
15	15.5	110			205	15	381	10	254	19.87	504	14.62	371	98	45
23	25.8	150			208	18	457	14	356	23.87	606	17.43	443	132	60
34.5	38	200			210	24	610	18	457	27.87	708	23.12	587	163	74
46	48.3	250			214	30	762	22	559	31.87	810	28.75	730	205	93
69	72.5	350			216	42	1067	30	762	41.62	1057	40	1016	295	134

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