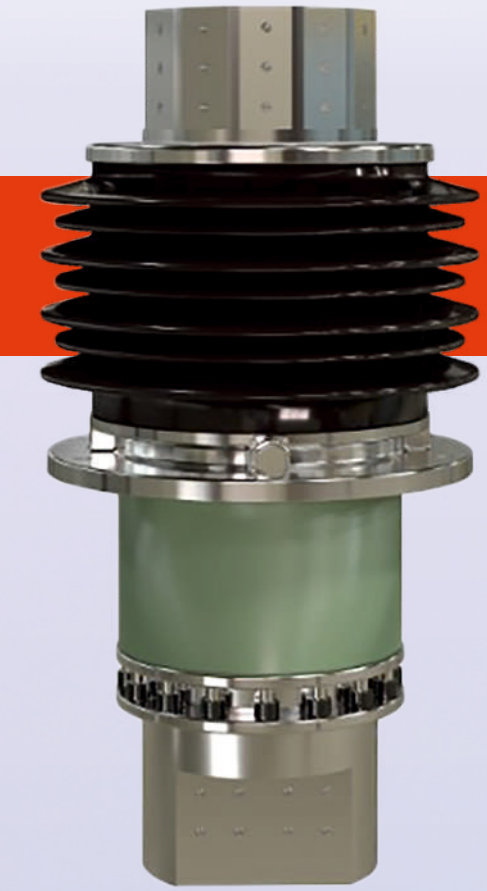
EPOXY HOUSE®
Growth Through Innovation



HIGH CURRENT BUSHING

Rated Current
5000 to 20000 Amps

Standard
IEC-60137

Rated Voltage
24 and 36 kV

- Highest Short-time Thermal Rating
- Safe operation at low oil level
- Best Thermal Performance
- Fire resistant

Novel Features

- DRY INSULATION : Resin Infused Glass (RIG) free of PAPER & OIL
- MAIN CONDUCTOR : Solid Extruded High Conductivity Aluminum, No Joints
- TERMINALS : Integral, Solid HEAT SINK, SCREWED ON LINKS
- LINKS TO BUSDUCT : Standardized Wide across, Uniform Current
- SPRING LOADED : Non-Corrosive, Non-Magnetic
- NICKEL COATING : Uniform Electroless, Remain bright for longer period

The design is crafted from time tested best practices of the industry and sets new standards on Safety, Performance and Reliability

The High Current Bushings are built around solid extruded Aluminium conductor. Top and Bottom Terminations are integral, without any joints. Heat sink effect of Top and Bottom termination and the current uniformity eliminate HOT SPOTS and enhance UPTIME. No Free bolting but tapped holes 3 per columns, to enhance reliability and easier to fix.

NO PAPER and NO OIL major Insulation; The Novel Resin Infused Glass can operate independent of Turret oil level. Can be stored and mounted at any angle. Oil free solid graded insulation, ensure Fire safety and Fool proof operation

Construction

The solid core, Fiberglass cylinder, concentric with the centre rod, runs from top to bottom of the bushing. This provides a unique electric and mechanical protection to the centre conductor.

The worst of the mechanical shock due to earth fault, short circuit or seismic can not make a slightest lateral shift of any part. This robust construction also eliminates any chance of electrical failure due to air lock in turret or inside bushing.

Thus, the bushing can be mounted or stored at any angle and perform independent of air trapped inside turret or bushing. Assembly is made about the solid extruded conductor with strong spring assembly. To take care of the expansion contraction due to change in temperature.

The flat milled termination on both ends are standardised wide across any current rating. Means same flexible link can be used for any current rating but the quantity on shall vary in relation to current.

Top and bottom terminals have flat faces for direct connection to link with M12 Screws. No need to hold a spanner from inside during fixing.

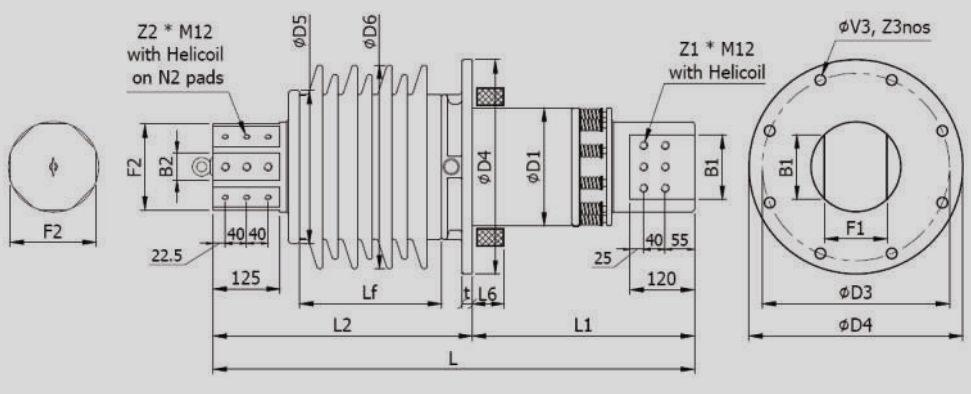
Manufacturing and Test Facility

- The state-of-the-art manufacturing and test facility in conformance with documented Quality Management Systems.
- We are equipped with NABL Accredited High Voltage laboratory with 800 kVp Impulse to carry out dielectric routine and type tests.

Technical and Dimensional Details

(All dimensions in mm)

Model	Unit	FB02450	FB02480	FB03610	FB03616
Rated Voltage	kV	24	24	36	36
Nominal Current	Amps	5000	8000	10000	16000
Basic Insulation Level	kVp	125	125	170	170
Ac. Withstand Voltage	kV	55	55	77	77
Total Creepage Length	mm	600	600	800	800
Short Time Thermal Current (2sec.)	kA	150	200	250	300
Cantilever Withstand	N	3150	3150	3150	3150
Total Weight	kG	55	80	105	190
Provision For Bct	L6	30	30	30	30
Total Length	L	855	855	900	900
Length Inside Transformer	L1	415	415	415	415
Air Side Length	L2	440	440	485	485
Min. Flash Over Distance	Lf	220	220	265	265
Min. Creepage Length	Lk	600	600	800	800
Max. Dia. Inside Transformer	ØD1	175	210	230	300
Mounting Pcd.	ØD3	290	350	350	430
Mounting Flange Od.	ØD4	335	400	400	480
Mounting Hole Dia. * Quantity	V3*Z3	Ø15*8	Ø 20*8	Ø 20*8	Ø 20*8
Mounting Flange Thickness	t	15	20	20	24
Diameter Of Top Cap	ØD5	220	275	285	370
Diameter Of Porcelain Shed	ØD6	315	370	380	465
Bottom Terminal Pad Width	B1	80	106	120	180
Bottom Terminal Bolts	Z1	M12*4*2	M12*4*2	M12*6*2	M12*8*2
Bottom Terminal Thickness	F1	78	106	120	174
Top Terminal Pad Width	B2	48	52	52	52
Top Terminal Pad Height	H2	125	125	125	125
Number Of Terminal Pads	N2	4	6	8	12
Max. Space Between Pads	F2	100	140	160	245
Quantity Of Terminal Bolts	Z2	M12*3*4	M12*3*6	M12*3*8	M12*3*12



WE ALSO MANUFACTURE

CONDENSER BUSHINGS

Rated Current

800 to 5,000 Amps

Standard

IEC-60137

Rated Voltage

52 to 245 kV

- Oil Impregnated Paper Condenser
- Dimensions conform to BIS 12676
- High operational reliability

We also provide:

Retrofit solution for any reputed make of HIGH CURRENT or CONDENSER BUSHINGs

Complete range of High Current Bushings are also available in all Copper frame 36 kV 20,000 Amps is established in copper only.

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