L V Distribution

Low - Voltage Main Distribution Boards

GEESYS™
Expert in General Electrical & Electronic SYStems

Features

- Durable
- Long service life
- Offer excellent performance
- Made with qualitative raw materials
- Accurate dimensions
- Power saving feature
- Offering high performance
- Low maintenance

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Geesys offers the advantage of seam-less integration between Medium and Low voltage distribution networks.

A type-tested switchgear assembly (TTA) in compliance with IS 8623-1 / IEC 439, Geesys switch boards offer assured safety & reliable performance. This claim is backed up with extensive testing for performance behaviour under severe short-circuit currents upto 65kA and withstand capability for Geesys zones III & V.

Geesys LV Distribution are unique in its offering of consistent compact dimensions saving space upto 40% of the utility room, coupled with a choice between Copper & Aluminium as Bus-bars.

Geesys LV Distribution are fully compartmentalized limiting the effects of accidental arcs and fault propagation to a minimum in the event of a fault

Flexible, modular, bolted design is excellently suited to the needs of data centers, as components can quickly and easily be replaced without extended service interruptions.

Under technology license from Siemens Geesys LV Distribution are manufactured and sold through a network of authorized licence partners

Type-tested LV switchgear to match your main LT Panel system.

Air Circuit Breakers	Moulded Case Circuit Breakers	Switch Disconnector Fuse Units
400A to 6300A in three optimized frame sizes	20A to 1250A in 3/4 pole variants	32A to 800A
Short circuit breaking capacities up to 100 kA	Positive isolation	DP/TP/TPN versions available
50/100/200% Neutrals available	Short circuit breaking capacities up to 70 kA	Suitable for DIN, BS and Cylindrical type fuses
Common height and depth across the range	Microprocessor, Thermal Magnetic and Magnetic based releases	High Short circuit rating of fuses(100kA)
Arc chute interlocking	Wide range of snap accessories	Full AC23A utilization category
No derating at higher ambients	Ergonomic design	Positive isolation of fuses
Energy saving pole design	User friendly features	Separate arcing and current carrying zones
Independent locking of ON/OFF buttons		Quad break contact system
Tool-less fixing of Voltmetric releases		High clearance and creepage distances
Display of complete accessory information on front facia		Built in isolable or add-on switched neutral

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Technical Specifications

Standards			IS 8623, IEC 61439 - 1&2
		Clearance	> 20 mm
		Creep age distances	> 20 mm
Power Rating		Overvoltage category	II / III / IV
		Pollution degree	3
		Field condition	Inhomogeneous (non-uniform)
		Rated operational voltage (U_e)	415-690 VAC, 24-220 VDC
	Voltage	Rated insulation voltage (U_i)	690 V
	Ratings	Rated impulse withstand voltage (U_{imp})	6 / 8 kV
		Rated frquency (f_n)	50 / 60 Hz
		Main Horizontal busbars:	
Electrical		Rated current (I_{nA})	up to 4000 A
characteristics		Short circuit withstand (I_{cw})	main bus 65 kA / 1sec / 143 kA
	Current ratings	peak Short circuit withstand (I_{cw})	neutral 39kA / 1sec / 82kA peak
		Short circuit withstand (I_{cw})	earth 39kA / 1sec / 82kA peak
		Busbar execution Interleaved / non-Interleaved	
		Busbar options Copper / aluminium	
		Vertical Distribution busbars :	
		Rated current (I_{nA})	
		Short circuit withstand (I_{cw})	main bus 65 kA / 1sec / 143 kA
		peak Short circuit withstand (I_{cw})	neutral 39kA / 1sec / 82kA peak
		Short circuit withstand (I_{cw})	earth 39kA / 1sec / 82kA peak
		Busbar execution Interleaved / non-Interleaved	
		Busbar options Copper / aluminium	
		Infeed termination Cable / bus ways / busduct	
		Infeed entry Top / bottom	
		Cable feeder access Front / rear*	
		In accordance with IEC 60529:	
	Degree of protection	External	IP 4X/54*
		Internal	IP 2X
		Ambient temperature	40º C / 45º C / 50º C
		Temperature rise As per IEC 61439 -2	
	Forms of separation	as per IEC 61439 - 2	Form III/IV*
		Height (mm)	1800, 2000, 2200, 2400
		Width (mm)	440, 600, 800, 1000 (ACB section)
	Dimensions		850, 1100,1400,1650,1900 (Outgoing section)
Mechanical Characteristics			440, 600, 900, 1000, 1100 (ACB section)
			440, 600 (Outgoing section)
		Pretreatment	under 8 tank process
		Structure	Alu-zinc / powder coated / painted
		Internal Components	Alu-zinc / powder coated / painted
		External Components	powder coated / painted
	Resistance to Corrosion	Damp heat cycling test	IEC 60068-2-30
		Salt mist test	IEC 60068-2-11
	Plastic components	Flame retardant, self-extinguishing, Halogen-free	IEC 60695-2-10, IEC 60695-2-11

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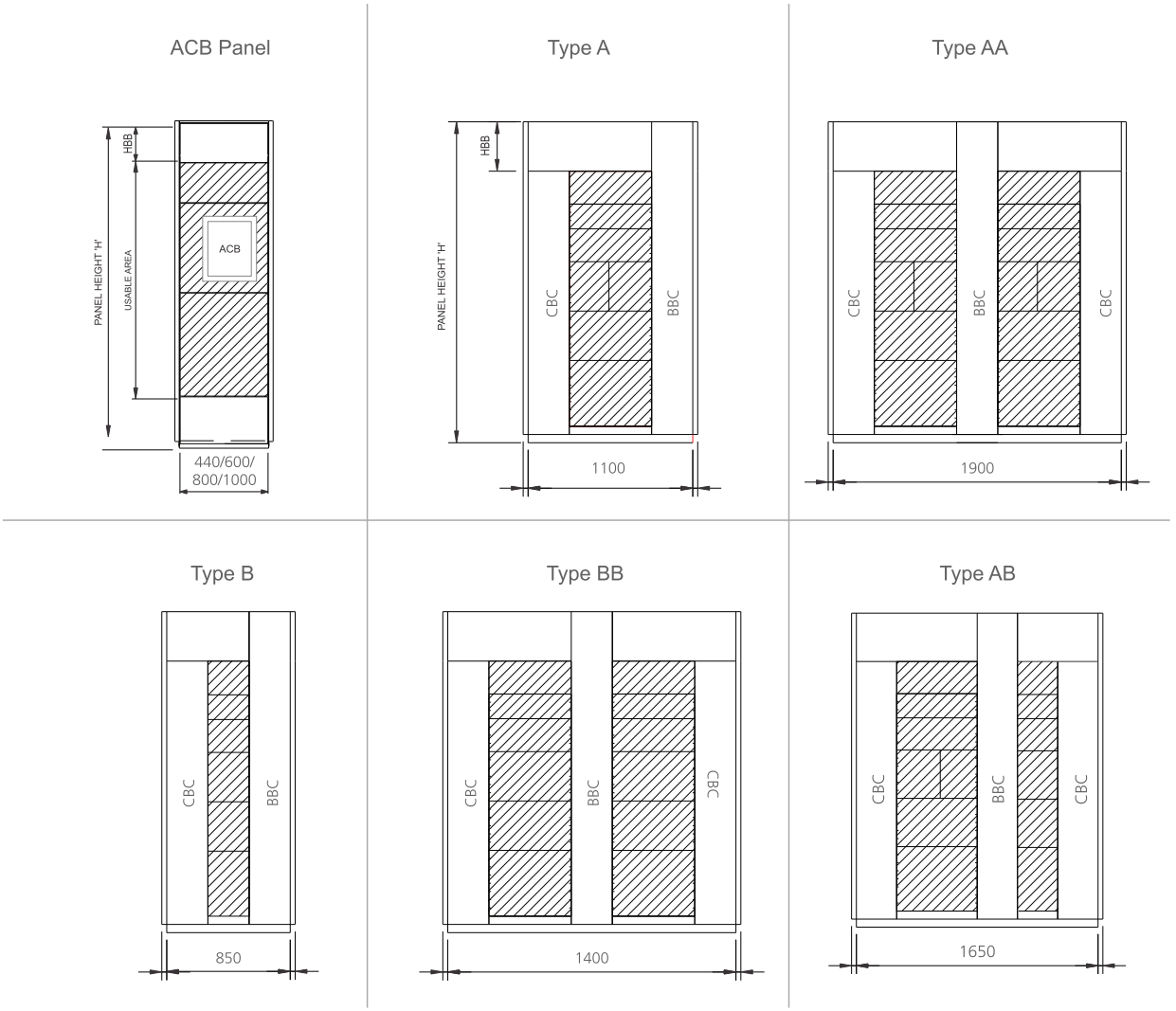
Configurations

FRONT VIEW

PANEL TYPES



CBC - cable chamber (width = 300 mm), BBC - busbar chamber (width = 300 mm)

Panel Height 'H'	Usable Area					
	ACB section			Outgoing section		
	210HBB	310HBB	410HBB	210HBB	310HBB	410HBB
1800	1220	1120	1020	1460	1360	1260
2000	1420	1320	1220	1660	1560	1460
2200	1620	1520	1420	1860	1760	1660
2400	1820	1720	1620	2060	1960	1860

*HBB - Horizontal Bus Bar

*Tailor Made Products are available

Due to constant product modifications, GEESYS Technologies have the rights to amend the above information / Specification without prior notice.

GEESYS Technologies (India) Pvt Ltd
No. 33A, Alandur Road, Saidapet, Chennai - 600 015, India.
+91 44 450 12354
Toll Free No: 1800 120 2354

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