

SC(B)H15 Series Amorphous Alloy Dry-Type Transformer

Eco-friendly and Energy-saving
Optimal Choice for Grid Upgrades



Nomenclature	S	C	(B)	H	15	-	□	/	□
	Three-phase	Cast Resin (Epoxy)	Optional LV Foil Winding	Amorphous Alloy	Technical level code		Rated Capacity (kVA)		Voltage Class (kV)

Product Features	1	2	3	4	5
	High Efficiency and Energy Saving: Utilizing cores made of amorphous alloy materials, the unit features exceptionally low no-load loss and no-load current, equivalent to only 30% of those found in silicon steel laminations. The no-load loss of this amorphous alloy dry-type transformer is 75% lower than the specified values in GB/T 10228, significantly reducing operating costs and delivering outstanding energy-saving performance.				
	Superior Corrosion Resistance: The amorphous alloy core is fully encapsulated with resin and high-temperature resistant silicone. This process effectively prevents corrosion and the shedding of amorphous alloy fragments, providing robust protection for both the core and the windings.				
	Low Noise Level: To minimize operational noise, the product design incorporates an optimized operating magnetic flux density. During manufacturing, the core and coil structures are refined using specialized noise-reduction materials and processes. The resulting noise level is approximately 5-15 dB lower than the requirements of the national standard GB/T 10088.				
	Robust Short-circuit Withstand Capability: The product utilizes a three-phase three-limb structure with a compact and rational clamping design for the core and coils. Our amorphous alloy dry-type transformers were among the first in the domestic market to successfully pass the sudden short-circuit test.				
	Low Partial Discharge: Through the use of vacuum epoxy resin casting, the product achieves low temperature rise, a long service life, and excellent heat dissipation. It is capable of operating at 150% of the rated load under forced air (AF) cooling conditions. The integrated temperature control and protection system provides a reliable guarantee for the safe operation of the amorphous alloy dry-type transformer.				

SC(B)H15 Series Amorphous Alloy Dry-Type Transformer - Main Performance Parameters

Model	Rated Capacity (kVA)	Vector Group	Voltage Combination (kV)			No-load Loss (W)	Load loss (W) (at 120°C, Class F)	No-load Current (%)	Short-circuit Impedance (%)
			High Voltage	Tapping Range	Low Voltage				
SCH15-30	30					70	710	0.6	
SCH15-50	50					90	1000	0.5	
SCH15-80	80					120	1380	0.5	
SCH15-100	100					130	1570	0.5	
SCH15-125	125					150	1850	0.4	
SCH15-160	160					170	2130	0.4	
SCH15-200	200					200	2530	0.4	4
SCH(B)15-250	250					230	2760	0.4	
SCH(B)15-315	315					280	3470	0.3	
SCH(B)15-400	400		6			310	3990	0.3	
SCH(B)15-500	500		6.3	±5%		360	4880	0.3	
SCH(B)15-630	630		6.6			420	5880	0.3	
SCH(B)15-630	630	Dyn11	10	±2×2.5%	0.4	410	5960	0.3	
SCH(B)15-800	800		10.5			480	6960	0.3	
SCH(B)15-1000	1000		11			550	8130	0.2	
SCH(B)15-1250	1250					650	9690	0.2	6
SCH(B)15-1600	1600					760	11700	0.2	
SCH(B)15-2000	2000					1000	14400	0.2	
SCH(B)15-2500	2500					1200	17100	0.2	
SCH(B)15-1600	1600					760	12900	0.2	
SCH(B)15-2000	2000					1000	15900	0.2	8
SCH(B)15-2500	2500					1200	18800	0.2	