SCB18 Series Grade 1 Energy Efficiency Dry-Type Transformer

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

Nomenclature

S	C	(B)	–	☐	/	☐	–	NX1
Three-phase	Cast Resin (Epoxy)	Optional LV Foil Winding		Rated Capacity (kVA)		Voltage Class (kV)		Energy Efficiency Grade

Product Features

1. GB 20052-2020 standard energy-saving product Grade 2 energy efficiency dry-type transformers feature advantages such as strong short-circuit withstand capability, low maintenance requirements, high operating efficiency, small size, and low noise, and are commonly used in locations with high performance requirements for fireproofing and explosion-proofing. Safe, fire-resistant, and pollution-free, they can be directly operated at high load centers.
2. Utilizing advanced domestic technology, these transformers feature high mechanical strength, strong short-circuit resistance, low partial discharge (PD), excellent thermal stability, high reliability, and an extended service life.
3. Low losses, low noise, significant energy-saving effects, and maintenance-free operation.
4. Excellent heat dissipation and high overload capacity; capable of short-term over-capacity operation under forced air (AF) cooling conditions.
5. Equipped with moisture-resistant properties, enabling reliable operation in harsh, high-humidity environments.
6. These transformers can be equipped with a comprehensive temperature detection and protection system. Utilizing an intelligent signal temperature control system, the unit can automatically detect and cyclically display the respective operating temperatures of the three-phase windings, automatically control fan start/stop cycles, and provide integrated alarm and trip function settings.
7. Small size, light weight, minimal footprint, and low installation costs.

SC(B)18 Series Dry-Type Transformers - Main Performance Parameters

Model	Rated Capacity (kVA)	Vector Group	Voltage Combination (kV)			No-load Loss (W)	Load loss (W) (at 120°C, Class F)	Short-circuit Impedance (%)
			High Voltage	Tapping Range	Low Voltage			
SC18-30	30	Yyno or Dyn11	10 6.3 6	±5% ±2x2.5% ±3 or -1 x2.5%	0.4	105	640	4
SC18-50	50					155	900	
SC18-80	80					210	1240	
SC18-100	100					230	1415	
SC18-125	125					270	1665	
SC(B)18-160	160					310	1915	
SC(B)18-200	200					360	2275	
SC(B)18-250	250					415	2485	
SC(B)18-315	315					510	3125	
SC(B)18-400	400					570	3590	
SC(B)18-500	500					670	4390	
SC(B)18-630	630					775	5290	
SC(B)18-630	630					750	5365	6
SC(B)18-800	800					875	6265	
SC(B)18-1000	1000					1020	7315	
SC(B)18-1250	1250					1205	8720	
SC(B)18-1600	1600					1415	10555	
SC(B)18-2000	2000					1760	13005	
SC(B)18-2500	2500					2080	15445	