SCB14 Series Grade 2 Energy Efficiency Dry-Type Transformer

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

Nomenclature

S C (B) – □ / □ – NX2

- S: Three-phase
- C: Cast Resin (Epoxy)
- (B): Optional LV Foil Winding
- □: Rated Capacity (kVA)
- □: Voltage Class (kV)

Product Features

1. GB 20052-2020 standard energy-saving product Grade 1 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)14 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			
SC14-30	30	Yyno or Dyn11	10 6.3 6	±5% ±2x2.5% ±3 or -1 x2.5%	0.4	130	640	4
SC14-50	50					185	900	
SC14-80	80					250	1240	
SC14-100	100					270	1415	
SC14-125	125					320	1665	
SC(B)14-160	160					365	1915	
SC(B)14-200	200					420	2275	
SC(B)14-250	250					490	2485	
SC(B)14-315	315					600	3125	
SC(B)14-400	400					665	3590	
SC(B)14-500	500					790	4390	
SC(B)14-630	630					910	5290	
SC(B)14-630	630					885	5365	6
SC(B)14-800	800					1035	6265	
SC(B)14-1000	1000					1205	7315	
SC(B)14-1250	1250					1420	8720	
SC(B)14-1600	1600					1665	10555	
SC(B)14-2000	2000					2075	13005	
SC(B)14-2500	2500					2450	15445	