



Dry-Type

SC(B)14 NX2 Grade-2 Efficiency Cast Dry-Type Transformer

The SC(B)14 NX2 Grade-2 energy-efficiency epoxy-resin cast dry-type transformer meets the new Grade-2 efficiency requirement. Built on the SC(B)13 platform, it optimises the core, windings and production process to achieve energy saving and noise reduction — a new energy-saving dry-type transformer promoted by the State Grid for the coming years.

MODEL DESIGNATION

S C (B) 14 - □ - NX2

S	three-phase	C	epoxy-resin cast
(B)	LV foil winding	14	performance-level series
□	rated capacity (kVA)	NX2	Grade-2 energy efficiency

TECHNICAL SPECIFICATIONS

Rated voltage	6 / 6.3 / 10 / 10.5 / 11 kV
Rated capacity	30 – 2500 kVA
LV voltage	0.4 kV
Connection	Dyn11 / Yyn0
Tap range	±2×2.5% or ±5%
No-load loss	0.130 – 2.450 kW
Load loss (B, 100 °C)	0.605 – 14.535 kW
No-load current	1.2% – 0.4%
Short-circuit impedance	4.0% / 6.0%
Efficiency	National Energy-Efficiency Grade 2
Insulation class	Class F / H
Enclosure protection	IP20 (IP23 optional)
Standards	GB 1094.11 / IEC 60076-11

KEY FEATURES

- ▶ A 2021-generation dry-type transformer meeting Grade-2 energy-efficiency standards — promoted by the State Grid
- ▶ Optimised, innovative winding structure and core design cut both no-load and load losses
- ▶ Combines new materials, new processes and in-house R&D with imported technology
- ▶ Lower operating noise

RATINGS & LOSSES

SC(B)14 NX2 Grade-2 energy-efficiency cast dry-type transformer (GB 20052 Grade 2) — HV 6/6.3/10/10.5/11 kV, LV 0.4 kV, Dyn11 / Yyn0. Load loss at F-class (120 °C ref). Per GB/T 10228 / GB 20052.

Capacity (kVA)	No-load loss (kW)	Load loss (kW)	No-load current (%)	Impedance Uk (%)
30	0.13	0.64	1.2	4
50	0.185	0.9	1.2	4
80	0.25	1.24	0.9	4
100	0.27	1.415	0.9	4
125	0.32	1.665	0.8	4
160	0.365	1.915	0.8	4
200	0.42	2.275	0.7	4
250	0.49	2.485	0.7	4
315	0.6	3.125	0.6	4
400	0.665	3.59	0.6	4
500	0.79	4.39	0.6	4
630	0.91	5.29	0.5	6
800	1.035	6.265	0.5	6
1000	1.205	7.315	0.5	6
1250	1.42	8.72	0.5	6
1600	1.665	10.555	0.5	6
2000	2.075	13.005	0.4	6
2500	2.45	15.445	0.4	6