



Dry-Type

SC(B)13 Epoxy-Resin Cast Dry-Type Transformer

This epoxy-resin cast dry-type transformer has a wide range of applications and is particularly well-suited to fire-safety-critical sites — mines, oilfields, metros, power plants, schools, hospitals, commercial centres, high-rise buildings and all indoor installation systems. Being oil-free, it is flame-retardant, self-extinguishing, pollution-free and maintenance-free.

MODEL DESIGNATION

S C (B) 13 - □/10

S	three-phase	C	resin-cast
(B)	LV foil winding	13	performance-level series
□/10	rated capacity (kVA) / HV voltage class (kV)		

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% (±3×2.5% available)
No-load loss	135 – 2590 W
Load loss (120 °C)	640 – 17000 W
No-load current	1.2% – 0.4%
Short-circuit impedance	4.0% / 6.0% / 8.0%
Insulation class	Class F / H
Standards	GB 1094.11 / IEC 60076-11

NORMAL OPERATING ENVIRONMENT

- ▶ Altitude not exceeding 1000 m
- ▶ Multi-phase supply voltages approximately symmetrical
- ▶ Supply-voltage waveform approximately sinusoidal
- ▶ Ambient temperature: max +40 °C; max daily average +30 °C; max annual average +20 °C; min –25 °C (indoor-type)

RATINGS & LOSSES

SC(B)13 epoxy-resin cast dry-type transformer — HV 6/6.3/10/10.5/11 kV, LV 0.4 kV, Dyn11 / Yyn0. Load loss at 120 °C. Per GB/T 10228 / GB 20052.

Capacity (kVA)	No-load loss (kW)	Load loss (kW)	No-load current (%)	Impedance Uk (%)
30	0.135	0.64	1.2	4
50	0.195	0.9	1.2	4
80	0.265	1.24	0.9	4
100	0.29	1.415	0.9	4
125	0.34	1.665	0.8	4
160	0.385	1.915	0.8	4
200	0.445	2.275	0.7	4
250	0.515	2.485	0.7	4
315	0.635	3.125	0.6	4
400	0.705	3.591	0.6	4
500	0.835	4.39	0.6	4
630	0.965	5.29	0.5	6
800	1.095	6.265	0.5	6
1000	1.275	7.315	0.5	6
1250	1.505	8.72	0.5	6
1600	1.765	10.555	0.5	6
2000	2.195	13.005	0.4	6
2500	2.59	15.455	0.4	6