


Dry-Type

SC(B)11 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) 11 - □/10

S	three-phase	C	resin-cast
(B)	LV foil winding	11	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%
No-load loss	0.170 – 3.240 kW
Load loss (120 °C)	0.710 – 18.890 kW
No-load current	1.6% – 0.6%
Short-circuit impedance	4.0% / 6.0% / 8.0%
Insulation class	Class F / H
Enclosure protection	IP20 (IP23 optional)
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)11 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. SC11 ≤200 kVA, SCB11 ≥250 kVA. Per GB/T 10228 / GB 20052.

Capacity (kVA)	No-load loss (kW)	Load loss (kW)	No-load current (%)	Impedance Uk (%)
30	0.17	0.71	1.6	4
50	0.24	1	1.6	4
80	0.33	1.38	1.2	4
100	0.36	1.57	1.2	4
125	0.42	1.85	1	4
160	0.48	2.13	1	4
200	0.55	2.53	0.9	4
250	0.64	2.76	0.9	4
315	0.79	3.47	0.8	4
400	0.88	3.99	0.8	4
500	1.04	4.88	0.8	4
630	1.2	5.88	0.7	6
800	1.36	6.96	0.7	6
1000	1.59	8.13	0.7	6
1250	1.88	9.69	0.7	6
1600	2.2	11.73	0.7	6
2000	2.74	14.45	0.6	6
2500	3.24	17.17	0.6	6