



Dry-Type

SC(B)12 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) 12 - □/10

S	three-phase	C	resin-cast
(B)	LV foil winding	12	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	0.15 – 2.88 kW
Load loss (F, 120 °C)	0.71 – 18.8 kW
No-load current	2.0% – 0.7%
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)12 epoxy-resin cast dry-type transformer — HV 6/6.3/10/10.5/11 kV, LV 0.4 kV, Dyn11 / Yyn0. Load loss at F-class insulation (120 °C reference). Per GB/T 10228.

Capacity (kVA)	No-load loss (kW)	Load loss (kW)	No-load current (%)	Impedance Uk (%)
30	0.15	0.71	2	4
50	0.215	1	2	4
80	0.295	1.38	1.5	4
100	0.32	1.57	1.5	4
125	0.375	1.85	1.3	4
160	0.43	2.13	1.3	4
200	0.495	2.53	1.1	4
250	0.575	2.76	1.1	4
315	0.705	3.47	1	4
400	0.785	3.99	1	4
500	0.93	4.88	1	4
630	1.07	5.88	0.85	6
800	1.21	6.96	0.85	6
1000	1.41	8.13	0.85	6
1250	1.67	9.69	0.85	6
1600	1.96	11.7	0.85	6
2000	2.44	14.4	0.7	6
2500	2.88	17.1	0.7	6