

## RESIN-INSULATED DRY-TYPE TRANSFORMER



The resin-insulated dry-type transformer is used to step down high-voltage power to low-voltage distribution levels such as 0.4kV. Based on voltage regulation methods, it is mainly classified into two types: double-winding no-load tap-changer transformers and on-load tap-changer transformers. The transformer adopts epoxy resin casting insulation and air-cooled cooling structure, and uses high-quality silicon steel cores and oxygen-free copper or aluminum windings.

### SCZ(B)10 series 6kV, 10kV class 200~2500kVA on-load voltage regulation parameters

(kVA) Rated power	(kV) Voltage combination			Impedance Короткое	(W) No-loadloss	75°C load loss (W)No-load current	No-load current (%)	Sound pressure level (A) dB	(Kg) Body Weight			
	HV	High pressure tap range	LV									
200	6 6.3 6.6 10 10.5 11	±4×2.5	0.4	4	640	2250	1.2	47	1350			
250					735	2450	1.2	47	1480			
315					990	3150	1.1	48	1660			
400					1120	3730	1.1	48	2040			
500					1290	4560	1.1	49	2230			
630					1490	5390	1	50	2610			
630				6	±4×2.5	0.4	6	1440	5550	1	50	2520
800								1710	6550	1	51	2950
1000								1980	7670	0.85	52	3520
1250								2340	9080	0.85	53	4000
1600								2720	10830	0.85	53	4690
2000								3420	13280	0.7	54	5570
2500								3960	15810	0.7	54	6630

Rated power (kVA)	Outline dimensions										
	L (mm)	W (mm)	H (mm)	H1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M1 (mm)	M2 (mm)	K1 (mm)	K2 (mm)
200	1600	1400	1400	1085	660	450	-	260	318	300	263
250	1600	1400	1400	1100	660	450	-	260	322	300	268
315	1700	1400	1500	1160	600	480	-	260	326	315	272
400	1700	1400	1500	1245	660	480	-	280	336	330	282
500	1700	1400	1500	1210	660	480	-	350	338	450	280
630	1900	1500	1600	1350	660	510	190	350	341	460	287
630	1900	1500	1600	1240	820	510	190	350	341	505	287
800	2000	1500	1700	1320	820	510	190	350	345	520	291
1000	2000	1600	1700	1450	820	510	190	350	356	550	306
1250	2150	1600	1900	1600	820	560	190	350	359	565	309
1600	2200	1600	1900	1735	820	560	190	400	371	600	325
2000	2300	1600	2200	1900	820	560	220	400	382	620	336
2500	2400	1600	2200	2030	820	560	220	400	389	650	349

### SC(B)10 Series 20 (10) kV class 100~2500kVA technical data

(kVA) Rated power	(kV) Voltage combination			Impedance Короткое	(W) No-load loss	75°C load loss (W) No-load current	No-load current (%)	Sound pressure level (A) dB	(Kg) Body Weight
	HV	High pressure tap range	LV						
100	20 (10)	±2×2.5	0.4	6	540	1740	1.8	44	1030
160					670	2160	1.5	45	1110
200					730	2570	1.5	46	1700
250					840	2990	1.3	46	1800
315					970	3560	0.7	47	1940
400					1150	4230	0.6	48	2140
500					1350	5560	0.6	48	2560
630					1530	5970	0.5	49	2690
800					1750	7210	0.5	50	3050
1000					2070	8540	0.5	50	3550
1250					2380	10040	0.5	52	4570
1600					2790	12050	0.5	52	5950
2000					3240	14240	0.5	53	6055
2500					3870	16860	0.4	53	7535

### Main performance parameters of SCB11 type 20kV kilotype transformer

Model number	Rated power (kVA)	Voltage combination (kV)			Vector group	No-load loss (W)	Load loss (W)	No-load current (%)	Impedance voltage (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)					
SCB11-50	50	20 22 24	±2×2.5±5 / +3×2.5±5 / -1×2.5±5	0.4	Dyn11 Yyn0	345	1180	2.4	6.0
SCB11-100	100					545	1910	2.2	
SCB11-160	160					682	2780	1.8	
SCB11-200	200					745	2820	1.8	
SCB11-250	250					855	3280	1.6	
SCB11-315	315					980	3910	1.6	
SCB11-400	400					1165	4640	1.4	
SCB11-500	500					1335	5550	1.4	
SCB11-630	630					1548	6550	1.2	
SCB11-800	800					1775	7910	1.2	
SCB11-1000	1000					2090	9370	1.0	
SCB11-1250	1250					2410	11050	1.0	
SCB11-1600	1600					2820	13300	1.0	8.0
SCB11-2000	2000					3280	15690	0.8	
SCB11-2500	2500					3910	18500	0.8	

### Main performance parameters of SCB13 type 20kV kilotype transformer

Model number	Rated power (kVA)	Voltage combination (kV)			Vector group	No-load loss (W)	Load loss (W)	No-load current (%)	Impedance voltage (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)					
SCB13-50	50	6 6.3 10	±2×2.5±5 / +3×2.5±5 / -1×2.5±5	0.4	Dyn11 Yyn0	305	1420	2.4	6.0
SCB13-100	100					484	2380	2.2	
SCB13-160	160					597	2960	1.8	
SCB13-200	200					655	3350	1.8	
SCB13-250	250					759	3650	1.6	
SCB13-315	315					872	4300	1.6	
SCB13-400	400					1042	5300	1.4	
SCB13-500	500					1189	6250	1.4	
SCB13-630	630					1365	7500	1.2	
SCB13-800	800					1494	8560	1.2	

SCB13-1000	1000					1856	10660	1.0	
SCB13-1250	1250					2140	12420	1.0	
SCB13-1600	1600					2507	15000	1.0	8.0
SCB13-2000	2000					2678	15860	0.8	
SCB13-2500	2500					3128	18650	0.8	

**SC(B)10 series 35/10kV class 800~20000kVA product technical data**

(kVA) Rated power	(kV) Voltage combination			Impedance Короткое	(W) No-loadloss	75°C (W) load loss	No-load current (%)	Sound pressure level (A) dB	(Kg) Body Weight
	HV	High pressure tap range	LV						
800	35 38.5	±5 ±2×2.5	6 6.3 10 10.5 11	6	2.25	8.21	0.95	53	4390
1000					2.67	9.52	0.95	53	5340
1250					3.13	11.26	0.85	54	6090
1600					3.69	13.45	0.85	54	7240
2000				7	4.23	15.89	0.75	55	7670
2500					4.86	19.03	0.75	55	8770
3150				8	6.03	21.37	0.7	56	10830
4000					7.02	25.67	0.7	56	12440
5000					8.37	30.47	0.6	56	14980
6300					9.9	35.62	0.6	57	17390
8000				9	11.3	40.16	0.5	57	19810
10000					12.9	48.45	0.5	57	25270
12500					15.7	56.4	0.4	57	27450
16000					19.3	66.35	0.4	58	33490
20000				10	22.9	74.65	0.35	58	43460

**SCB11 type 35kV class kilo-type transformer product parameters**

Model number	Rated power (kVA)	Voltage combination (kV)			Vector group	No-load loss (W)	Load loss (W)	No-load current (%)	Impedance voltage (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)					
SCB11-50	50					435	1370	2.8	
SCB11-100	100					630	1980	2.4	
SCB11-160	160					800	2700	1.8	

SCB11-200	200	35 38.5	$\pm 2 \times 2.5$ $\pm 5$	0.4	Dyn11 Yyn0	890	3200	1.8	6.0
SCB11-250	250					1000	3650	1.6	
SCB11-315	315					1180	4300	1.6	
SCB11-400	400					1390	5200	1.4	
SCB11-500	500					1640	6400	1.4	
SCB11-630	630					1890	7400	1.2	
SCB11-800	800					2200	8800	1.2	
SCB11-1000	1000					2500	10200	1.0	
SCB11-1250	1250					2980	12800	0.9	
SCB11-1600	1600					3300	14900	0.9	
SCB11-2000	2000					3800	17530	0.9	
SCB11-2500	2500					4500	21000	0.9	

SCB12 type 35kV class tri-coherent distribution transformer product parameters

(kVA) Rated power	(kV) Voltage combination			Vector group	(W) No-loadloss	(W) Load loss			No-load current	(%) Impeda nce voltage
	HV	High pressure tap range	LV			130°C	155°C	180°C		
						(B)	(F)	(H)		
50	35 36 37 38.5	$\pm 2 \times$ $2.5 \pm 5$	0.4	Dyn11 Yyn0	360	1340	1420	1520	2.3	6.0
100					504	1970	2090	2230	2.0	
160					632	2650	2810	3000	1.5	
200					704	3130	3320	3550	1.5	
250					792	3580	3800	4060	1.3	
315					936	4250	4510	4820	1.3	
400					1100	5100	5410	5790	1.1	
500					1300	6270	6650	7110	1.1	
630					1490	7250	7690	8230	1.0	
800					1730	8600	9120	9760	1.0	
1000					1940	9860	10400	11100	0.75	
1250					2260	12000	12700	13600	0.75	
1600					2590	14600	15400	16500	0.75	
2000					3060	17200	18200	19500	0.75	
2500					3560	20600	21800	23300	0.75	

SCB13 type 35kV class kilo-type transformer product parameters

Model number	Rated power (kVA)	Voltage combination (kV)			Vector Vector group	No-load loss (W)	Load loss (W)	No-load current (%)	Impedance voltage (%)
		High voltage (kV)	High voltage tap range (%)	Low voltage (kV)					
SCB13-50	50	35 38.5	±2×2.5 ±5	0.4	Dyn11 Yyn0	926	2780	2.8	6.0
SCB13-100	100					1225	3850	2.4	
SCB13-160	160					1408	4740	1.8	
SCB13-200	200					1524	5445	1.8	
SCB13-250	250					1681	6110	1.6	
SCB13-315	315					1950	7070	1.6	
SCB13-400	400					2389	8900	1.4	
SCB13-500	500					2793	10860	1.4	
SCB13-630	630					3174	12420	1.2	
SCB13-800	800					3789	15160	1.2	
SCB13-1000	1000					4119	16780	1.0	
SCB13-1250	1250					4748	20200	0.9	
SCB13-1600	1600					4290	23950	0.9	
SCB13-2000	2000					5922	26750	0.9	
SCB13-2500	2500					6806	31620	0.9	