

概述 Summary

S13变压器节能显著，磁路均匀，空载损耗低、噪声低、温升低、效率高、配电变压器节能效果显著。采用新型铁芯材料，磁路分布均匀，大大降低了空载激磁电流和空载损耗。由于铁芯为全斜三接缝结构，故运行可靠、体积小、重量轻，可供居民区、商业街道、工矿企业和农村动力及照明之用。

S13 transformer significant energy saving, uniform magnetic circuit, low no-load loss, low noise, low temperature rise, high efficiency, significant energy saving effect of distribution transformers. Using the new core material, and uniform distribution of the magnetic circuit, Greatly reduces the load excitation current and no-load loss. As the core of the oblique three-beam construction, so reliable operation, small size, light weight, and available for residential areas, commercial street, industrial and mining enterprises and rural Power and lighting purposes.

产品特点 Features

- 节能。与原S11相比，空载损耗平均降低20%以上，空载电流降低25%以上，运行费用平均下降15%以上。
- 使用寿命长。变压器铁芯采用新型铁芯材料，大大降低损耗，变压器使用寿命大幅延长。
- 占地面积小。由于铁芯由高质量冷轧品粒取向硅钢片制成；高、低压绕组选用优质无氧铜线并采用多层圆通式工艺结构；所有紧固件均采用特殊放松处理。机械强度高。变压器体积小、重量轻，全密封油箱，可广泛适用于各种环境。
- Energy conservation. Compared with the original S11, the average no-load loss reduced by 20% or more, the no-load current is reduced by 25% or more, operating costs dropped by an average of more than 15%.
- long service life, transformer core with new core material, and greatly reduce the loss significantly extend the life of the transformer.
- Small footprint, the core is made from high quality cold rolled grain oriented silicon steel sheet; high, low voltage winding made of high quality oxygen-free copper wire and multilayer tact process structure; All fasteners are used special relax treatment, the high mechanical strength, and transformer sizes small, light weight, and the fully sealed tank, can be widely used in various environments.

10kV级S13、S13M系列油浸式配电变压器技术参数

Tech data of 10kV S13、S13M series distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kV) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kW) Loss		空载电流 (%) No-load current	重量(kg) Weight			外形尺寸(mm) (长Lx宽Bx高H) Outline dimension	轨距 纵向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load		器身重 Body	油重 Oil	总重 Total		
30	高压(HV)	Yyno Dyn11	4	0.080	0.630/0.600	2.3	185	70	330	760x615x930	400/400
50				0.100	0.910/0.870	2.0	260	80	415	770x655x1000	400/400
63				0.110	1.090/1.040	1.9	260	85	475	805x615x1030	400/400
80				0.130	1.310/1.250	1.9	320	95	550	850x650x1075	400/400
100				0.150	1.580/1.500	1.8	355	100	610	855x700x1125	550/550
125				0.170	1.890/1.800	1.7	425	115	695	980x620x1145	550/550
160				0.200	2.310/2.200	1.6	510	130	835	1050x655x1200	550/550
200				0.240	2.730/2.600	1.5	550	145	985	1080x660x1215	550/550
250				0.290	3.200/3.050	1.4	630	165	1130	1115x685x1280	660/660
315				0.340	3.830/3.650	1.4	755	190	1305	1220x775x1320	660/660
400	0.410		4.520/4.300	1.3	910	225	1565	1235x745x1410	660/660		
500	0.480		5.410/5.150	1.2	1050	240	1795	1335x845x1455	660/660		
630	0.69		4.5	0.570	6.200	1.1	1250	310	2185	1425x865x1490	820/820
800				0.700	7.500	1.0	1540	365	2580	1490x910x1595	820/820
1000				0.830	10.300	1.0	1690	405	2895	1655x1105x1625	820/820
1250				0.970	12.000	0.9	1965	560	3370	1775x1205x1705	820/820
1600				1.170	14.500	0.8	2355	650	4190	1725x1200x1790	820/820

注:高压分接范围:±5%或±2X2.5%;频率:50Hz

Note:tapping range of HV:±5%or±2X2.5%; frequency:50Hz

10kV级S11、S11M系列油浸式配电变压器技术参数
Tech data of 10kV S11、S11M series distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kV) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kW) Loss		空载电流 (%) No-load current	重量(kg) Weight			外形尺寸(mm) (长×宽×高H) Outline dimension	轨距 轨向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load		器身重 Body	油重 Oil	总重 Total		
10	高压(HV)	Yyno	4	0.065	0.4	3.5	90	55	220	650X450X880	300/300
20				0.08	0.52	3.0	140	60	270	720X490X950	400/400
30				0.1	0.63/0.6	2.3	185	70	330	760x615x930	400/400
50				0.13	0.91/0.87	2.0	260	80	415	770x655x1000	400/400
63				0.15	1.09/1.04	1.9	260	85	475	805x615x1030	400/400
80				0.18	1.31/1.25	1.9	320	95	550	850x650x1075	400/400
100				0.2	1.58/1.5	1.8	355	100	610	855x700x1125	550/550
125				0.24	1.89/1.8	1.7	425	115	695	980x620x1145	550/550
160				0.28	2.31/2.2	1.6	510	130	835	1050x655x1200	550/550
200				0.34	2.73/2.6	1.5	550	145	985	1080x660x1215	550/550
250	低压(LV)	Dyn11	4	0.4	3.2/3.05	1.4	630	165	1130	1115x685x1280	660/660
315				0.48	3.83/3.65	1.4	755	190	1305	1220x775x1320	660/660
400				0.57	4.52/4.3	1.3	910	225	1565	1235x745x1410	660/660
500				0.68	5.41/5.15	1.2	1050	240	1795	1335x845x1455	660/660
630				0.81	6.2	1.1	1250	310	2185	1425x865x1490	820/820
800				0.96	7.5	1.0	1540	365	2580	1490x910x1595	820/820
1000				1.15	10.3	1.0	1690	405	2895	1655x1105x1625	820/820
1250				1.36	12.0	0.9	1965	560	3370	1775x1205x1705	820/820
2000			4.5	1.64	14.5	0.8	2355	650	4190	1725x1200x1790	820/820
2500				1.96	19.8	0.8	2570	615	4245	2190X1900X1950	820/820
2500				2.31	23.0	0.7	3130	810	5280	2180X1940X2250	1070/1070

注:高压分接范围:±5%或±2X2.5%; 频率:50Hz
Note:tapping range of HV: ±5%or ±2X2.5%; frequency:50Hz

10kV级SZ11系列有载调压油浸式配电变压器技术参数
Tech data of 10kV SZ11 series on-load regulation distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kV) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kW) Loss		空载电流 (%) No-load current	重量(kg) Weight			外形尺寸(mm) (长×宽×高H) Outline dimension	轨距 轨向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load		器身重 Body	油重 Oil	总重 Total		
200	高压(HV)	Yyno	4	0.34	3.06	1.5	540	270	1110	1400X740X1190	550/550
250				0.4	3.6	1.4	640	290	1270	1420X790X1210	660/660
315				0.48	4.32	1.4	730	320	1500	1540X850X1240	660/660
400				0.57	5.22	1.3	940	370	1780	1590X940X1250	660/660
500				0.68	6.21	1.3	1040	370	1920	1650X1000X1350	660/660
630				0.81	7.65	1.1	1220	460	2280	1810X1140X1350	820/820
800				0.96	9.36	1.0	1500	500	2740	1890X1200X1310	820/820
1000				1.15	10.98	1.0	1610	520	3060	1910X1260X1570	820/820
1250			4.5	1.36	13.05	0.9	1880	700	3710	1960X1280X1740	820/820
1600				1.64	15.57	0.8	2290	780	4350	2330X1800X1910	820/820
2000	0.69	Dyn11	4.5	1.96	21.26	0.8	2560	900	4950	2580X1900X1950	820/820
2500				2.31	24.69	0.7	3170	1010	6020	2580X1940X2250	1070/1070

注:有载调压变压器高压可提供±4×2.5%调压范围
Note:it can supply voltage regulating range of ±4×2.5% for HV on load regulation transformers

10kV级S9系列油浸式配电变压器技术参数
Tech data of 10kV S9、S9-M series distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kv) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kw) Loss		空载电流 (%) No-load current		重量(kg) Weight			外形尺寸(mm) (长Lx宽Bx高H) Outline dimension	轨距 纵向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load		偶身重 Body	油重 Oil	总重 Total			
5	高压(HV)	Yyno Dyn11	4	0.07	0.35	4	50	45	145	550X450X800	300/300	
10				0.09	0.4	3.5	70	55	185	550X450X800	300/300	
20				0.11	0.52	3.0	110	60	270	730X660X860	400/400	
30				0.13	0.63/0.6	2.3	130	65	305	745X670X900	400/400	
50				0.17	0.91/0.87	2.0	195	80	385	775X660X955	400/400	
63				0.2	1.09/1.04	1.9	230	80	440	805X690X985	400/400	
80				0.25	1.31/1.25	1.9	260	95	510	855X690X1025	400/400	
100				0.29	1.58/1.5	1.8	300	95	550	850X675X1065	550/550	
125				0.34	1.89/1.8	1.7	335	115	635	995X595X1085	550/550	
160				0.4	2.31/2.2	1.6	405	130	775	1050X645X1115	550/550	
200	低压(LV)		4.5	0.48	2.73/2.6	1.5	490	150	900	1080X660X1175	550/550	
250				0.56	3.2/3.05	1.4	565	170	1040	1170X725X1205	660/660	
315				0.67	3.83/3.65	1.4	655	200	1210	1240X775X1255	660/660	
400				0.8	4.52/4.3	1.3	840	250	1435	1315X815X1325	660/660	
500				0.96	5.41/5.15	1.2	935	235	1630	1435X930X1360	660/660	
630				1.2	6.2	1.1	1100	330	1990	1505X935X1380	820/820	
800				1.4	7.5	1.0	1360	370	2340	1650X1060X1460	820/820	
1000				1.7	10.3	1.0	1455	475	2600	1735X1165X1525	820/820	
1250				1.95	12.0	0.9	1715	545	3080	1800X1215X1610	820/820	
1600				2.4	14.5	0.8	2095	630	3700	1820X1280X1660	820/820	
2000				2.8	19.8	0.8	2340	715	4190	2060X1740X2050	820/820	
2500				3.3	23.0	0.7	2920	830	5100	2250X1800X2100	1070/1070	

注:高压分接范围: ±5%或±2X2.5%; 频率:50Hz
Note:tapping range of HV: ±5%or±2X2.5%; frequency:50Hz

10kV级SZ9系列油浸式配电变压器技术参数
Tech data of 10kV SZ9 series distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kv) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kw) Loss		空载电流 (%) No-load current		重量(kg) Weight			外形尺寸(mm) (长Lx宽Bx高H) Outline dimension	轨距 纵向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load	空载 No-load	隔身重 Body	油重 Oil	总重 Total			
200	高压(HV)	Yyno Dyn11	4	0.48	3.06	1.5	510	210	960	1140X780X1140	550/550	
250				0.56	3.6	1.4	600	230	1105	1480X800X1200	660/660	
315				0.67	4.32	1.4	690	260	1315	1600X860X1210	660/660	
400				0.8	5.22	1.3	890	310	1570	1680X940X1300	660/660	
500				0.96	6.21	1.2	990	310	1710	1660X1040X1310	660/660	
630	低压(LV)		4.5	1.2	7.65	1.1	1160	400	2050	1810X1140X1350	820/820	
800				1.4	9.36	1.0	1430	430	2480	1890X1210X1380	820/820	
1000				1.7	10.98	1.0	1530	540	2830	1950X1260X1510	820/820	
1250				1.95	13.05	0.9	1800	610	3460	1960X1280X1660	820/820	
1600				2.4	15.57	0.8	2200	700	4060	2350X1620X2020	820/820	
2000				2.8	21.26	0.8	2460	800	4620	2460X1740X2050	820/820	
2500				3.3	24.69	0.7	3070	910	5630	2650X1800X2100	1070/1070	

注:有载调压变压器高压可提供±4×2.5%调压范围
Note:it can supply voltage regulating range of ±4×2.5% for HV on load regulation transformers

35kV级S9系列油浸式配电变压器技术参数

Tech data of 35kV S9 series distribution transformer

额定容量 Rated capacity (kVA)	电压组合(kv) Voltage group	联结方式 Vector group	阻抗电压 (%) Impedance voltage	损耗(kW) Loss		空载电流 (%) No-load current	重量(kg) Weight			外形尺寸(mm) (长Lx宽Bx高H) Outline dimension	轨距 纵向/横向 Gauge Vertical/ Horizontal
				空载 No-load	负载 Load		器身重 Body	油重 Oil	总重 Total		
50	高压(HV) 38.5 36.5 35 33	Yyno	6.5	0.21	1.21	2.0	195	205	590	1000X950X1450	550/550
100				0.29	2.02	1.8	320	240	790	1080X1000X1600	
125				0.34	2.38	1.7	395	270	950	1100X1030X1630	
160				0.36	2.83	1.6	460	285	1020	1130X1060X1630	
200				0.43	3.33	1.5	555	325	1170	1190X1060X1670	660/660
250				0.51	3.96	1.4	630	340	1340	1260X1160X1670	
315				0.61	4.77	1.4	720	400	1530	1280X1240X1790	
400				0.73	5.76	1.3	830	490	1780	1960X880X1900	
500	低压(LV) 0.4			0.86	6.93	1.2	930	510	1960	2020X940X1920	820/820
630				1.04	8.28	1.1	1085	600	2290	2070X1010X2110	
800				1.23	9.9	1.0	1270	660	2640	2240X1040X2150	
1000				1.44	12.15	1.0	1495	735	3100	2300X1200X2150	
1250				1.76	14.67	0.9	1775	830	3630	2450X1280X2250	1070/1070
1600				2.12	17.55	0.8	2140	935	4235	2220X1510X2350	
2000				2.61	21.5	0.8	2535	1035	4910	2310X1740X2440	
2500				3.15	23.0	0.8	3140	1190	5840	2370X1840X2490	

注:有载调压变压器高压可提供 ± 4 × 2.5%调压范围

Note:it can supply voltage regulating range of ± 4 × 2.5% for HV on load regulation transformers