35kV OIL-IMM ERSED POWER TRANSFORMERS

35kV
油浸式电力变压器

35kV级系列变压器具有低损耗、低噪音、防雷电水平及抗突发短路能力强、外形美观等优点，采用先进的生产设备和制造工艺及优质组配件相结合之精品，变压器具有“遥信、遥测、遥调、遥控”的四遥功能，可通过计算机远程控制，实现变电站无人值班化。35kV级系列节能变压器通过国家机械工业局和国家电力公司的联合新产品鉴定。35kV级系列变压器产品主要用于城乡工农业电网及各工矿企业、电站输配电工程。

35kV series transformers are with the following characteristics: low loss, low noise, protection against thunder and lightning, high short-circuit withstand capacity and beautiful appearance etc. It is made by advanced assembling lines and method, with qualified and refined accessories. It enjoys four remote functions: “remote communication, remote test, remote adjustment and remote control”. By remote control from a computer, the power station could be free from supervision in the office. 35kV series energy-saving transformers have passed the Identification Test by State Bureau of Machinery Industry, and State Power Corporation. 35kV series transformers are mainly used in urban and rural power grids and other industrial, mining enterprises, power transmission and distribution industry and also agriculture projects.

主要特点与技术参数：Main functions and characters

- 铁芯由先进的纵、横剪切和叠装设备加工、阶梯形三级接缝，分散了气隙分布，改善了磁通走向，降低了空载损耗，空载电流及噪音；
- 铁芯采用拉板、压圈、硅钢端面专用胶及一系列整体性结构及措施，提高了机械强度；
- 高低压绕组结构新型，合理布置分接区域及油道设计，提高机械强度和抗短路能力；
- 油箱为钟罩式或吊心式结构，油箱壁成瓦楞状，箱体线条流畅、简洁、大方、美观。

- The core is processed by advanced vertical cut, horizontal cut, and stacking with stepped lap core and grade 3 seams. It disperses the air distribution, improves flux trend, thus, and decreases the no-load loss, no-load current and noise.
- The core uses particular adhesive for the plate, press ring, and silicon steel surface; and a range of overall structure and measures are used to increase the mechanical strength.
- New structure of HV, LV windings and reasonable layout of oil duct and connecting area increases the capacity of mechanical strength and short-circuit withstand capacity.
- The tank is bell type or core-lifting type, and the tank side is as corrugated form, with flowing lines, simplicity and beauty.

50-1600/35系列三相双绕组无励磁调压配电变压器

50-1600/35 Series Three-phase Double-winding Distribution Transformers with Off-circuit Tap Changer

额定容量 Rated capacity (kVA)	电压组合 Voltage ratio (kV)		联结组 Connection Symbol	9型损耗(kW) loss values for S9 serial transformer		10型损耗(kW) loss values for S10 serial transformer		11型损耗(kW) loss values for S11 serial transformer		空载电流 No-load current	短路阻抗 Impedance	重量(t) Weight			外型尺寸(mm) Outline Dimension			轨距 Gauge
	高压 HV	低压 LV		空载 No-load loss	负载 Full-load loss	空载 No-load loss	负载 Full-load loss	空载 No-load loss	负载 Full-load loss	(%)	(%)	油重 Oil weight	运输重 Untanking weight	总重 Total weight	长 L	宽 W	高 H	mm
50	35 38.5 ±5% 或 ±2× 2.5%	0.4	Yyn0 Dyn11	0.21	1.21	0.19	1.15	0.17	1.15	2	6.5	275		740	1100	1000	1700	660
100				0.29	2.02	0.26	1.92	0.23	1.92	1.8		350		995	1100	1150	1750	660
125				0.34	2.38	0.31	2.26	0.27	2.26	1.7		430		1250	1100	1150	1800	660
160				0.36	2.83	0.32	2.69	0.29	2.69	1.6		450		1405	1160	1150	1860	660
200				0.43	3.33	0.39	3.16	0.34	3.16	1.5		495		1460	1230	1300	1950	660
250				0.51	3.96	0.46	3.76	0.41	3.76	1.4		520		1625	1250	1300	2000	660
315				0.61	4.77	0.55	4.53	0.49	4.53	1.4		590		1915	1400	1320	2070	820
400				0.73	5.76	0.66	5.47	0.58	5.47	1.3		680		2175	1510	1350	2150	820
500				0.86	6.93	0.77	6.58	0.69	6.58	1.2		760		2485	1620	1370	2240	820
630				1.04	8.28	0.94	7.87	0.83	7.87	1.1		830		2950	1750	1390	2330	820
800				1.23	9.9	1.11	9.41	0.98	9.41	1		880		3370	1900	1420	2400	820
1000				1.44	12.15	1.3	11.54	1.15	11.54	1		1005		4140	2165	1450	2485	820
1250				1.76	14.67	1.58	13.94	1.41	13.94	0.9		1160		4700	2230	1500	2600	1070
1600				2.12	17.55	1.91	16.67	1.7	16.67	0.8		1250		5570	2250	1650	2650	1070

630-2500/35系列三相双绕组无励磁调压电力变压器

630-2500/35 Series Three-phase Double-winding Distribution Transformers with Off-circuit Tap Changer

额定容量 Rated capacity (kVA)	电压组合 Voltage ratio (kV)		联结组 Connection Symbol	9型损耗(kW) loss values for S9 serial transformer		10型损耗(kW) loss values for S9 serial transformer		11型损耗(kW) loss values for S11 serial transformer		空载电流 No-load current	短路阻抗 Impedance	重量(t) Weight			外型尺寸(mm) Outline Dimension			轨距 Gauge
	高压 HV	低压 LV		空载 No-load loss	负载 Full-load loss	空载 No-load loss	负载 Full-load loss	空载 No-load loss	负载 Full-load loss	(%)	(%)	油重 Oil weight	运输重 Untanking weight	总重 Total weight	长 L	宽 W	高 H	mm
630	35 38.5 ±5% 或 ±2× 2.5%	6.3 6.6 10 10.5 11	Yd11	1.04	8.28	0.94	7.87	0.83	7.87	1.1	6.5	0.65		2.9	2100	1300	2300	820
800				1.23	9.9	1.11	9.4	0.98	9.4	1		0.7		3.2	2200	1350	2350	820
1000				1.44	12.15	1.3	11.54	1.15	11.54	1		0.85		3.5	2350	1450	2400	820
1250				1.76	14.67	1.58	13.94	1.41	13.94	0.9		1.01		3.84	2500	1600	2450	1070
1600				2.12	17.55	1.91	16.67	1.7	16.67	0.8		1.2		5	2600	1700	2500	1070
2000				2.72	19.35	2.45	18.38	2.18	18.38	0.7		1.28		6	2730	1800	2600	1070
2500				3.2	20.7	2.88	19.67	2.56	19.67	0.6		1.4		7	2870	1900	2700	1070

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35kV Double-winding Distribution Transformers with Off-circuit Tap Changer

额定容量 Rated capacity (kVA)	电压组合 Voltage ratio (kV) 高压 HV	高压分接范围 HV Tapping Range	低压 LV	联结组 Connection Symbol	空载损耗 No-load loss (kW)	空载电流 No-load current (%)	负载损耗 Full-load loss (kW)	短路阻抗 Impedance (%)
3150	35 38.5	±2×2.5%	3.15 3.3 6.3 6.6 10.5 11	Yd11	3.80	0.56	24.30	7.0
4000					4.52	0.56	28.80	
5000					5.40	0.48	33.03	
6300					6.56	0.48	36.90	7.5
8000				YNd11	9.00	0.42	40.50	
10000					10.88	0.42	47.70	
12500					12.60	0.40	56.70	8.0
16000					15.20	0.40	69.30	
20000					18.00	0.40	83.70	
25000					21.28	0.32	99.00	
31500					25.28	0.32	118.80	

35kV双绕组有载调压电力变压器

35kV Double-winding Power Transformers with On-load Tap-changer

额定容量 Rated capacity (kVA)	电压组合 Voltage ratio (kV) 高压 HV	高压分接范围 HV Tapping Range	低压 LV	联结组 Connection Symbol	空载损耗 No-load loss (kW)	空载电流 No-load current (%)	负载损耗 Full-load loss (kW)	短路阻抗 Impedance (%)
3150	35 38.5	±3×2.5%	6.3 6.6 10.5 11	Yd11	4.04	0.72	26.01	7.0
4000					4.84	0.72	30.69	
5000					5.80	0.68	36.00	
6300					7.04	0.68	38.70	7.5
8000				YNd11	9.84	0.60	42.75	
10000					11.60	0.60	50.58	
12500					13.68	0.56	59.85	8.0
16000					16.46	0.54	74.02	
20000					19.46	0.54	87.14	

注：上述表格中变压器损耗值均为“9”型产品。
Note: The loss values in the above forms are just for Type S9 transformers.