

## S11-M系列三相双绕组 无励磁调压20kV配电变压器



采用先进电磁设计软件设计，性能符合IEC60076、GB1094、GB/T6451、GB/T25289-2010标准。无储油柜、吸湿器等装置，确保变压器油不与空气接触，能提高变压器油抗氧化能力，延缓变压器油老化。铁心采用优质冷轧晶粒取向硅钢片，全斜接缝叠片结构，从而降低空载损耗和空载电流。油箱为波纹油箱，波翅可以随变压器油体积的胀缩而胀缩，从而使变压器内部保持一定的压力，增强运行可靠性，变压器外表抗腐蚀能力强。配电变压器线圈采用高强度漆包线（或纸包线）卷绕，安匝分布均匀，绝缘结构合理，具有很强的抗短路能力。配电变压器器身采用免吊芯结构，密封件采用优质丙烯酸酯橡胶，能有效防止光老化、热老化。

It adopts advanced electromagnetic design software, and meets IEC60076, GB1094, GB/T6451, GB/T25289-2010 standards. Without such device like conservator, air breather..., so it ensures that the transformer oil is not in contact with air, improving the anti-oxidation capacity of the transformer oil and delaying its aging. The core is made of high quality cold-rolled grain-oriented silicon steel sheet, with laminated structure miter joint, so as to reduce the no-load losses and no-load current. The tank is a corrugated type, the corrugated fins can swell and shrink with the change of transformer oil, so that the pressure can be maintained inside the tank, increase its reliability and anti-corrosion capability. The coil of distribution transformer, wound by high intensity enameled wrapped conductors with good Ampere-Turn balance and reasonable insulation structure, has a strong short-circuit withstand capacity. The distribution transformer adopts the free-untanking structure. With sealing material parts made of high quality acrylic rubber, it can effectively prevent against light-aging and heat-aging.

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S11-M Series Three-phase Double-winding 20kV 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	损耗(W) Loss		空载电流 No-load current (%)	短路阻抗 Impedance (%)	重量(kg) Weight		外型尺寸(mm) Outline Dimension			轨距 Gauge mm
	高压 HV	低压 LV		空载 No-load loss	负载 Full-load loss			油重 Oil weight	总重 Total weight	长 L	宽 W	高 H	
30	20 ±5% 或 ±2 ×2.5%	0.4	Yyn0 Dyn11	100	690/660	2.1	5.5	100	360	800	680	950	400×400
50				130	1010/960	2		120	410	850	700	970	400×400
63				150	1200/1150	1.9		140	480	880	710	1000	400×400
80				180	1440/1370	1.8		150	540	900	720	1030	400×400
100				200	1730/1650	1.6		170	615	950	750	1050	400×400
125				240	2080/1980	1.5		180	710	950	900	1070	550×550
160				290	2540/2420	1.4		195	790	1000	900	1100	550×550
200				340	3000/2860	1.3		220	910	1050	930	1120	550×550
250				400	3520/3350	1.2	245	1040	1100	950	1150	550×550	
315				480	4210/4010	1.1	280	1185	1450	950	1200	550×550	
400				570	4970/4730	1	300	1370	1500	1000	1250	660×660	
500				680	5940/5660	1	350	1620	1550	1050	1320	660×660	
630				810	6820	0.9	420	2085	1650	1100	1350	660×660	
800				980	8250	0.8	465	2400	1700	1200	1450	820×820	
1000				1150	11330	0.7	580	2880	1900	1350	1500	820×820	
1250				1380	13200	0.7	640	3300	1950	1380	1550	820×820	
1600	1660	15950	0.6	770	4000	2050	1450	1600	820×820				

注：1、对于额定容量为500kVA及以下的变压器，表中斜线上方的负载损耗值适用于Dyn11联结组，斜线下方的负载损耗值适用于Yyn0联结组。  
2、表中损耗参数也适用于高压双电压20(10)的三相变压器。

Note: 1. For transformers with the capacity of 500kVA and below, values of load loss above the slash of the table apply to Dyn11 connection, and values of load loss below the slash apply to Yyn0 connection.  
2. The loss values in the table also apply to high-voltage double-voltage 20(10) three-phase transformers.