



66kV Oil - Immersed Power Transformer

1. Generals

66kV Oil-Immersed Power Transformer is designed according to IEC 60076 and Gb1094 1, .2 - 1996, GB1094. 3, .5-1985 for 50Hz, 630-63000 kVA applicable to power transmission and transformation in industrial and agricultural grids.

2. Structure and Characteristics

I. The core is made of high quality cold-rolled grain-oriented silicon-steel, inserted at 45°, in 3 steps. Core stem and yoke are in multi-stage round section for small idle loss and low noise.

II. According to the size of transformer capacity, H.V. and L.V. wirings can be in cylindrical type, spiral type, continuous type or interleaved type. Effective measures are taken in the structure and process of different wiring insulation strength and mechanical strength, to ensure safe and reliable operation.

III. Each transformer is equipped with tapping switches with non-excitation regulating range $\pm 5\%$: $\pm 2 \times 2.5\%$ and loaded regulation range $\pm 8 \times 1.25\%$. Other tapping ranges are available on request.

IV. The oil tank is welded with different types of steel according to mechanical strength. Flat top bell type structure is adopted for a capacity larger than 8000kVA. Cylindrical structure is for a capacity smaller than 8000kVA. The whole unit is compact with reasonable cooling effect, guaranteeing the temperature controlled within rated range during full load operation.

V. Accessories include: H.V. sleeve, L.V. sleeve, mercury thermometer, oil refilling and draining valve, oil storage, grounding bolt, hanging tag and name plate, etc. Gas relay and pressure relief valve are available for units larger than 800kVA, signal thermometer for units larger than 1000kVA and remote temperature detector for units larger than 8000kVA.

3. Technical specification

| 66kV Oil-Immersed Power Transformer | | | | | | | | | | | |
|---|----------------------|-------------------|----------------|-----------------------------|---------------------|-------------|-------|-------|------------------------|------|------|
| H.V. (kV): 63, 66, 69; L.V. (kV) 6.3, 6.6, 10.5; Connection Symbol: Yd11, YNd11; Tapping range: $\pm 5\%$ or $\pm 2 \times 2.5\%$ | | | | | | | | | | | |
| Type | Rated Capacity (kVA) | No-load Loss (kW) | Load Loss (kW) | Short-Circuit Impedance (%) | No-load Current (%) | Weight (kg) | | | Overall Dimension (mm) | | |
| | | | | | | Body | Oil | Total | Length | Wide | High |
| S9-630 | 630 | 1.60 | 7.560 | 8.0 | 1.7 | 1690 | 1650 | 4700 | 2075 | 1800 | 3020 |
| S9-1000 | 1000 | 2.24 | 10.44 | | 1.6 | 2200 | 2040 | 5930 | 2355 | 1850 | 3200 |
| S9-1600 | 1600 | 3.12 | 14.85 | | 1.5 | 2750 | 2650 | 7400 | 2500 | 1880 | 3400 |
| S9-2000 | 2000 | 3.68 | 17.55 | | 1.4 | 3200 | 2700 | 7800 | 2540 | 1950 | 3500 |
| S9-2500 | 2500 | 4.32 | 20.70 | | 1.3 | 3625 | 2910 | 8100 | 2580 | 2300 | 3550 |
| S9-3150 | 3150 | 5.12 | 24.30 | | 1.2 | 4275 | 3100 | 9910 | 2600 | 2350 | 3610 |
| S9-4000 | 4000 | 6.08 | 28.80 | | 1.1 | 4865 | 3160 | 10730 | 2665 | 2640 | 3895 |
| S9-5000 | 5000 | 7.20 | 32.40 | | 1.0 | 5375 | 3710 | 12130 | 2920 | 3010 | 3895 |
| S9-6300 | 6300 | 9.28 | 36.00 | | 0.9 | 7685 | 4260 | 15300 | 3150 | 3100 | 4050 |
| SF9-8000 | 8000 | 11.2 | 42.75 | | 0.9 | 10130 | 5800 | 21300 | 4540 | 3750 | 4400 |
| SF9-10000 | 10000 | 13.2 | 50.40 | 9.0 | 0.8 | 12100 | 7570 | 24975 | 4625 | 3670 | 4180 |
| SF9-12500 | 12500 | 15.6 | 59.85 | | 0.8 | 15000 | 10000 | 27000 | 4200 | 3780 | 4860 |
| SF9-16000 | 16000 | 18.8 | 73.53 | | 0.7 | 18175 | 9890 | 34170 | 5600 | 3960 | 4485 |
| SF9-2000 | 2000 | 22.0 | 89.10 | | 0.7 | 21940 | 10130 | 40100 | 5600 | 4000 | 5080 |
| SF9-25000 | 25000 | 26.0 | 105.3 | | 0.7 | 25110 | 11420 | 44850 | 5740 | 4250 | 4800 |
| SF9-31500 | 31500 | 31.8 | 126.9 | | 0.6 | 27940 | 12780 | 49970 | 6310 | 4640 | 4840 |
| SF9-40000 | 40000 | 36.8 | 148.9 | | 0.6 | 30020 | 14700 | 54800 | 6550 | 4690 | 5100 |
| SF9-50000 | 50000 | 44.0 | 184.5 | | 0.5 | 33150 | 16845 | 60050 | 6770 | 4730 | 5210 |
| SF9-63000 | 63000 | 52.0 | 222.3 | | 0.4 | 38500 | 17100 | 65700 | 7310 | 4800 | 5300 |

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66kV Oil-Immersed Load Regulation Power Transformer

| 66kV Oil-Immersed Load Regulation Power Transformer | | | | | | | | | | | |
|--|----------------------|-------------------|----------------|-----------------------------|--------------------|------------|-------|-------|-----------------------|------|------|
| H.V.(kV):63,66,69;L.V.(kV)6.3,6.6,10.5;11 Connection Symbol: YNd11; Tapping range: $\pm 8 \times 1.25\%$ | | | | | | | | | | | |
| Type | Rated Capacity (kVA) | No-load Loss (kW) | Load Loss (kW) | Short-Circuit Impedance (%) | No-load Current(%) | Weight(kg) | | | Overall Dimension(mm) | | |
| | | | | | | Body | Oil | Total | Length | Wide | High |
| SZ9-6300 | 6300 | 10.00 | 36.00 | 9.0 | 0.9 | 7850 | 4860 | 16500 | 3750 | 3310 | 4050 |
| SFZ9-8000 | 8000 | 12.00 | 42.75 | | 0.9 | 11300 | 5910 | 24100 | 4540 | 3750 | 4400 |
| SFZ9-10000 | 10000 | 14.24 | 50.40 | | 0.8 | 13020 | 7660 | 27300 | 4625 | 3670 | 4180 |
| SFZ9-12500 | 12500 | 16.80 | 59.85 | | 0.8 | 15850 | 11000 | 28300 | 4200 | 3980 | 4860 |
| SFZ9-16000 | 16000 | 20.24 | 73.53 | | 0.7 | 18500 | 10030 | 36260 | 5665 | 3960 | 4485 |
| SFZ9-20000 | 20000 | 24.00 | 89.10 | | 0.7 | 22500 | 10130 | 42800 | 5600 | 4000 | 5080 |
| SFZ9-25000 | 25000 | 28.40 | 105.3 | | 0.7 | 25320 | 11470 | 47500 | 5810 | 4250 | 4800 |
| SFZ9-31500 | 31500 | 33.76 | 126.9 | | 0.6 | 28060 | 12780 | 51500 | 6420 | 4640 | 4840 |
| SFZ9-40000 | 40000 | 40.40 | 148.9 | | 0.6 | 30140 | 14700 | 55200 | 6650 | 4690 | 5100 |
| SFZ9-50000 | 50000 | 47.76 | 184.5 | | 0.5 | 33800 | 16845 | 60150 | 6870 | 4730 | 5210 |
| SFZ9-63000 | 63000 | 56.80 | 222.3 | | 0.4 | 39000 | 17100 | 67900 | 7420 | 4800 | 5300 |

Notes for Order:

(1) To make an order, please specify the following:

- 1.Product name
- 2.Model and size
- 3.Rated capacity (kVA)
- 4.Rated voltage group and tapping range
- 5.Short circuit impedance(%)
- 6.Connection symbol
- 7.Cooling type
- 8.Special requirements(such as altitude , phase number, frequency , insulation level and gauge, etc.)

(2) The information above is for technical reference only, The performance data, dimension and weight of the product are subject to change without notice. Any special requirements shall be specified separately.

