



CM/L-8700073718

SERVOKON

RAKHE SAB CONTROL MEIN



POWER & DISTRIBUTION TRANSFORMER

Upto 20 MVA

About Us

Servokon Systems Ltd. was established in 1990 and since then, it is one of the leading manufacturers & exporters of Power Conditioning Products in the country.

Servokon is professionally managed  approved and ISO 9001: 2008, 14001:2004, CE certified company with a churning turnover of over 100 crores, having 250 professional and trained personnels at all levels to meet the commitment and provide highly reliable, robust, versatile products and prominent services.

We are maintaining to state-of-the-art testing lab with most advanced testing facilities. Our products confirm specifications as per IS: 9815-94, IEC & BS and other Indian Standards. Quality and standard of our products have been approved by various National Inspecting Agencies viz. Engineers India Ltd, (EIL), RITES, Department of Industries, Haryana, SGS, CPWD, DGS&D. Our brand "Servokon" is a registered supplier of the products in various Central & State Govt. Departments viz. GEM, NSIC, MES, PWD, Delhi Jal Board, CPWD and counting.

We have proved our existence through highly renowned awards like "Rashtriya Ekta Puraskar" from the President of India, Mr Shankar Dayal Sharma and recently awarded as "No. 1 in Quality Products" from Uttarakhand Government and the list goes on. India's most trusted brand in Servo Stabilizer awarded by IIBA

India's No. 1	"Servo Voltage Stabilizer Manufacturer"
India's First	Company to stabilize input voltage of "Minimum 50V" & "Maximum 500V" .
India's Only	Company with all types of "HT & LT" voltage stabilizers under one Roof.
India's First	Company with the largest capacity range of voltage stabilizers. "0.5KVA to 10,000KVA"
India's First	Company to stabilize the Maximum Voltage Classes "110V, 220V, 400V, 6.6kV, 11kV, 22kV & 33kV"

Distribution Transformer & Power Transformer

Distribution Transformer being the most important element in any Industrial/Commercial unit, factors involved whether it be production hampered due to breakdown in the transformer or may it be the hidden expenditures because of unwanted losses due to substandard quality of the transformer.

At Servokon, Our main aim is to provide superior quality maintenance free products, designed and tested as per the latest IS standards. To assure the same, we're maintaining our Design and Development team having highly qualified and experienced personnel to precisely keep an eye on the designing part incorporated with state-of-the-art testing lab with the advanced testing instruments to affirm the quality of the end product. But another vital factor is the quality of raw material, that's why we're using "Sterlite" make 99.9% electrolytic copper, Imported Low Loss M-4 grade CRGO laminations to minimize iron-copper losses and Branded High Quality "A Grade" transformer oil confirming as per IS 335 standards.

Product Range

Power Transformers	upto 20 MVA, 11 & 33 KV Class
Distribution Transformers	upto 20 MVA, 11 & 33 KV Class
Distribution Transformers with OLTC	upto 20 MVA, 11 & 33 KV Class
Distribution Transformers with Built-in HT AVR	upto 5 MVA, 11 & 33 KV Class
Special Furnace Transformers	upto 10 MVA, 11 & 33 KV Class
Earthing Transformers	upto 2 MVA 11KV Class
Isolation Transformers	upto 5 MVA Low Voltage Class
Special Purpose Transformers: Any Kind of Step up / DN Transformers for LT / HT Supply	

Applicable Standards

Servokon's Transformer are designed and tested as per following standards: IS-1180(Level-1,2 & 3), BS-171, IEC-76, IEC-726, IEC 354

Standard Fittings

- | | | |
|---|-------------------------------------|--|
| 1. Rating and diagram plate. | 7. Oil conservator with drain plug. | 13. Radiators. |
| 2. Earthing terminals - 2 Nos. | 8. Air release plug. | 14. Filter valve with plug. |
| 3. Lifting lugs | 9. Silica-gel air breather. | 15. Thermometer pocket. |
| 4. Oil level indicator (Plain) | 10. Bi-directional flat rollers. | 16. Oil temperature indicator. |
| 5. Drain-cum bottom filter valve with plug. | 11. HV terminals-outdoor bushings. | 17. Externally operated off circuit tap changing switch. |
| 6. Oil filling hole with plug on conservator. | 12. LV terminals-outdoor bushings. | 18. Explosion vent. |

Optional Accessories

- | | |
|---|---|
| 1. LV and HV cable boxes | 5. Marshalling box |
| 2. Winding temperature indicator (WTI). | 6. Disconnecting chamber |
| 3. Buchholz relay | 7. Oil temperature indicator with electrical contacts (OTI) |
| 4. Magnetic oil level gauge | 8. Pressure relief valve. |

Routine Tests

All transformers are subjected to all routine test as mentioned:

- | | |
|-----------------------------------|--------------------------------------|
| 1. Insulation Resistance Test | 6. Resistance measurement of winding |
| 2. Turns Ratio Test | 7. No load losses measurement |
| 3. Excitation current measurement | 8. Impedance voltage test |
| 4. Load losses measurement | 9. Insulation oil test |
| 5. Dielectric test | 10. Leakage test of transformer tank |

Quality

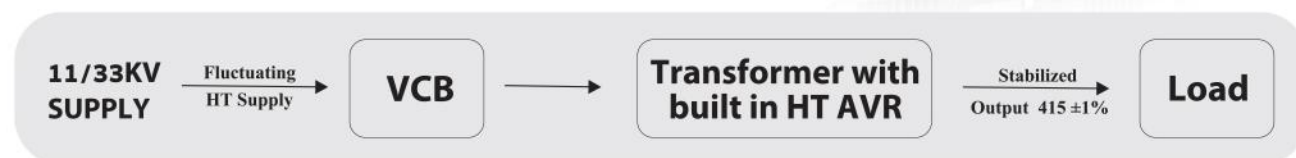
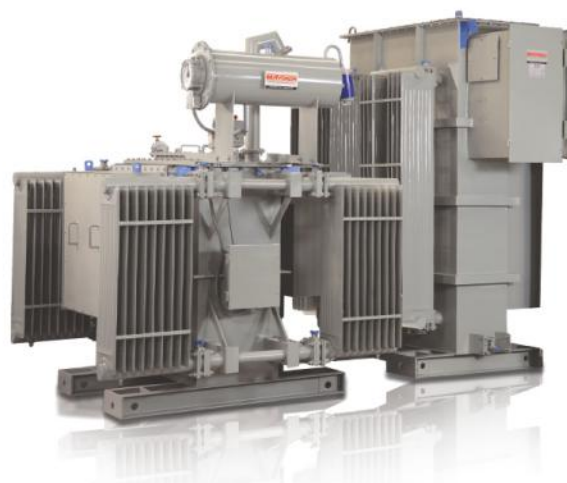
We ensure that every product manufactured is thoroughly checked and tested at our in-house testing facility as per specified "IS Standards" to meet our commitment to provide highly reliable, robust and versatile products in all respect.

Losses Parameter

KVA	Voltage Ratio (kv)	%Z at 75°C	Level 1		Level 2		Level 3	
			Max. Total Loss at 50% Load	Max. Total Loss at 100% Load	Max. Total Loss at 50% Load	Max. Total Loss at 100% Load	Max. Total Loss at 50% Load	Max. Total Loss at 100% Load
63	11/0.433	4.50%	380	1250	340	1140	300	1050
100	11/0.433	4.50%	520	1800	475	1650	435	1500
160	11/0.433	4.50%	770	2200	670	1950	570	1700
200	11/0.433	4.50%	890	2700	780	2300	670	2100
250	11/0.433	4.50%	1050	3150	980	2930	920	2700
315	11/0.433	4.50%	1100	3275	1025	3100	955	2750
400	11/0.433	4.50%	1300	3875	1225	3450	1150	3330
500	11/0.433	4.50%	1600	4750	1510	4300	1430	4100
630	11/0.433	4.50%	2000	5855	1860	5300	1745	4850
1000	11/0.433	5.0%	3000	9000	2790	7700	2620	7000
1250	11/0.433	5.0%	3600	10750	3300	9200	3220	8400
1600	11/0.433	6.25%	4500	13500	4200	11800	3970	11300
2000	11/0.433	6.25%	5400	17000	5050	15000	4790	14100
2500	11/0.433	6.25%	6500	20000	6150	18500	5900	17500
315	33/0.433	4.50%	1183	3521	1102	3333	1027	2956
400	33/0.433	4.50%	1398	4166	1317	3709	1236	3580
500	33/0.433	4.50%	1720	5106	1623	4623	1537	4408
630	33/0.433	4.50%	2150	6294	2000	5697	1876	5214
1000	33/0.433	5.00%	3225	9675	2999	8278	2817	7525
1250	33/0.433	5.00%	3870	11556	3548	9890	3462	9030
1600	33/0.433	6.25%	4838	14513	4515	12685	4268	12148
2000	33/0.433	6.25%	5805	18275	5429	16125	5149	15158
2500	33/0.433	6.25%	6988	21500	6611	19888	6343	18813

Distribution Transformer with Built-in HT AVR (Two-in-One)

Servokon offers revolutionary state-of-the-art Transformer with Built-in AVR, which is a combination of HT-AVR and a standard distribution transformer. The fluctuating HT voltage from Grid supply is initially controlled by HT AVR with accuracy of $\pm 1\%$ and then fed to the transformer, which transforms in its standard ratio to LT voltage. Subsequently, stabilized HT voltage will result in a stabilized LT voltage with accuracy of $\pm 1\%$. Basically, input will be 11/33KV and output will be LT voltage with $\pm 1\%$ can be obtained through a single product, can be understood better through schematic diagram mentioned below:



Transformer with Built-in AVR reduces the installation cost of the plant and even saves the required space in comparison to Transformer with separate stabilizer. One of the major benefits is the ability to make distribution transformer to be utilized up to 100% capacity because of the reason that transformer is fed with rated voltage which is not obtainable when the voltage drops before the transformer subsequently current becomes high and hampering transformer capacity utilization. Another main advantage is that very low input ranges in higher ratings (from 5KV - upto 5000 KVA) can also be stabilized which is not feasible and practical through LT AVR because of high current and neither through OLTC because of its limited variation range.

Applications

- Cement Plant • High Rise Buildings • Cold Storages • Tea Estate • Rolling Mills • Textile Mills
- Paper Mills • Hotel • Hospitals • Pharmaceutical Units • Engineering Units • Foot & Leather Units
- Rubber Industries etc.

Other Products



SERVOKON

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