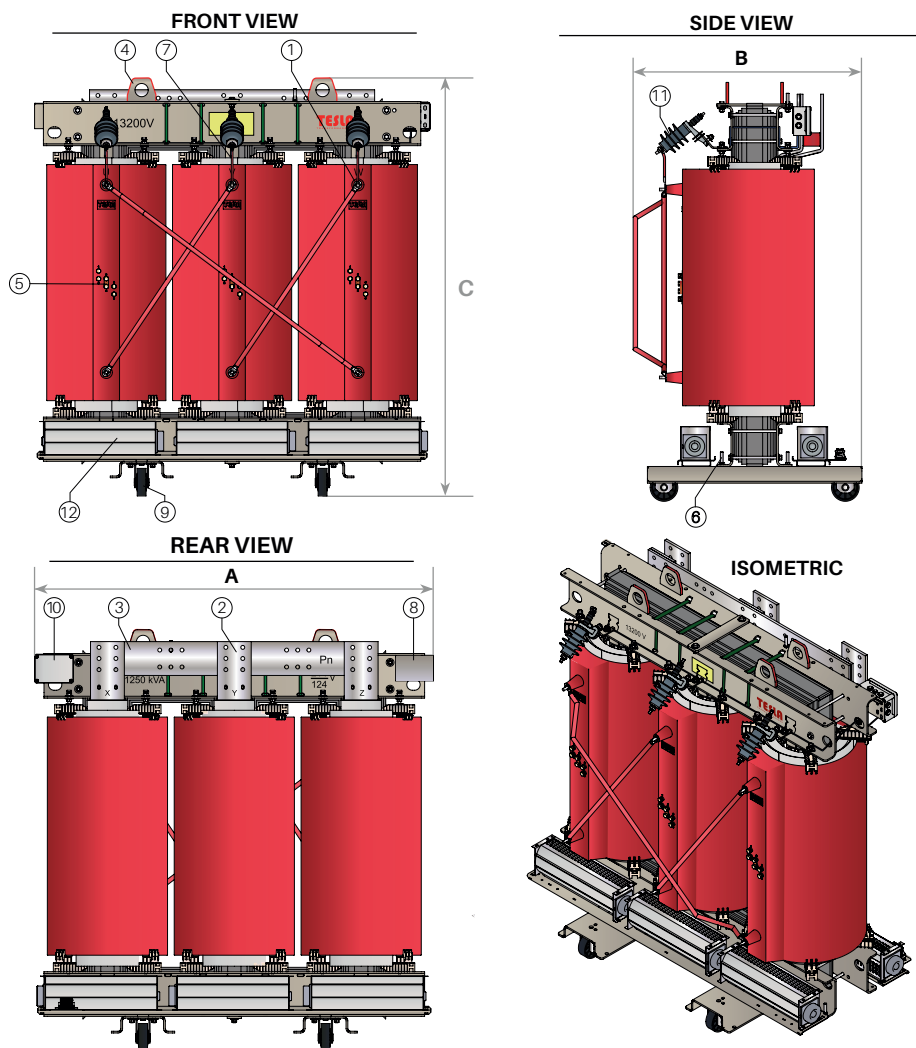


# CLASS F ENCAPSULATED DRY TYPE TRANSFORMER 15/1.1KV SERIES ACCORDING TO NTC 3445, NTC 3654 STANDARDS

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Rated voltage (kV)	15 / 1,1
Primary voltage (V)	13800-13200-11400
Secondary voltage (V)	Up to 800
Phases	3
Installation	Indoor
Frequency (Hz)	60
Connection group	Dyn-
Tap changer	(+2-2) X 2.5 % (customer request)
Temperature rise (°C)	100
BIL (kV)	60 / - 95 / -
Degree of protection	IP-00 / IP-20 (customer request)
Cooling	AN ó AF
Insulation class	F

## constituent parts

- 1 Primary winding phase terminals.
- 2 Secondary winding phase terminals
- 3 Neutral Terminal.
- 4 Lifting device.
- 5 de-energized tap changer.
- 6 Ground terminal.
- 7 Temperature sensor device (customer request).
- 8 Nameplate.
- 9 Swivel wheels 90°.
- 10 Terminal box support for temperature sensors (customer request).
- 11 Surge arresters 15 kV (customer request).
- 12 Forced ventilation system (customer request).

POWER (kVA)	A (mm)	B (mm)	C (mm)	WEIGHT (kg)	IMPEDANCE AT 120°C (%)	SHORT CIRCUIT DURATION (s)	SYMETRICAL ICC (kA)	LOAD LOSSES AT 120°C Pk(W)	NO-LOAD LOSSES Po(W)	EFFICIENCY 75°C (+) (%)	SOUND PRESSURE POWER (***) (dB)
30	1140	750	1040	260	6	2	16,7	609	260	97,45	50
45	1160	770	1060	380	6	2	16,7	872	300	97,87	50
75	1180	790	1100	520	6	2	16,7	1349	400	98,19	55
112,5	1190	810	1150	680	6	2	16,7	1907	550	98,32	55
150	1250	860	1200	860	6	2	16,7	2409	675	98,43	55
225	1290	870	1300	1040	6	2	16,7	3347	900	98,58	57
300	1400	890	1380	1230	6	2	16,7	4260	1120	98,66	57
400	1420	900	1440	1300	6	2	16,7	5437	1360	98,75	59
500	1480	910	1540	1600	6	2	16,7	6492	1600	98,81	59
630	1500	990	1660	1900	6	2	16,7	7800	1870	98,88	61
800	1600	1000	1740	2200	6	2	16,7	9413	2210	98,95	63
1000	1630	1010	1820	2400	6	2	16,7	11482	2600	98,99	63
1250	1710	1020	1880	2800	8	2	12,5	13815	3030	99,04	64
1600	1900	1120	2080	3900	8	2	12,5	17243	3530	99,10	65
2000	1990	1140	2220	4100	8	2	12,5	21098	3850	99,16	65

(\*) Efficiency levels calculated at a reference temperature of 75°C, with a load factor of 50% and power factor = 1.

(\*) Prior to the guaranteed efficiency value, the specified no-load or winding losses are a reference and these may vary depending on the voltage and current characteristics of the transformer.

(\*\*) Sound pressure level NTC 5978.

(\*\*\*) The number of perforations on the terminals is according to the manufacturing standard (It will be indicated in the final drawing).

## Notes

- Due to changes in technology and manufacturing methods, dimensions may change without prior notice, tolerances ± 10%.
- For special transformers, K factor for harmonic management, temperature increase in the windings, service factor 1.25, low losses, low noise level, different connection group and forced ventilation, are manufactured to order, with additional cost.
- Optional thermal protection, digital thermometer with 2 contacts, one for alarm and one for triggering with PT-100 sensor in one or in all three phases, upon request with additional cost.
- DPS surge arresters at additional cost.
- For voltages 7620 - 4160 - 2400 V, the rated voltage and the BIL change, check with the factory.
- For capacities, accessories, applications or special measures, check with the factory.
- The measurements are approximate for final plans check with the factory.
- For different or higher powers, they are manufactured to order, check with the factory.