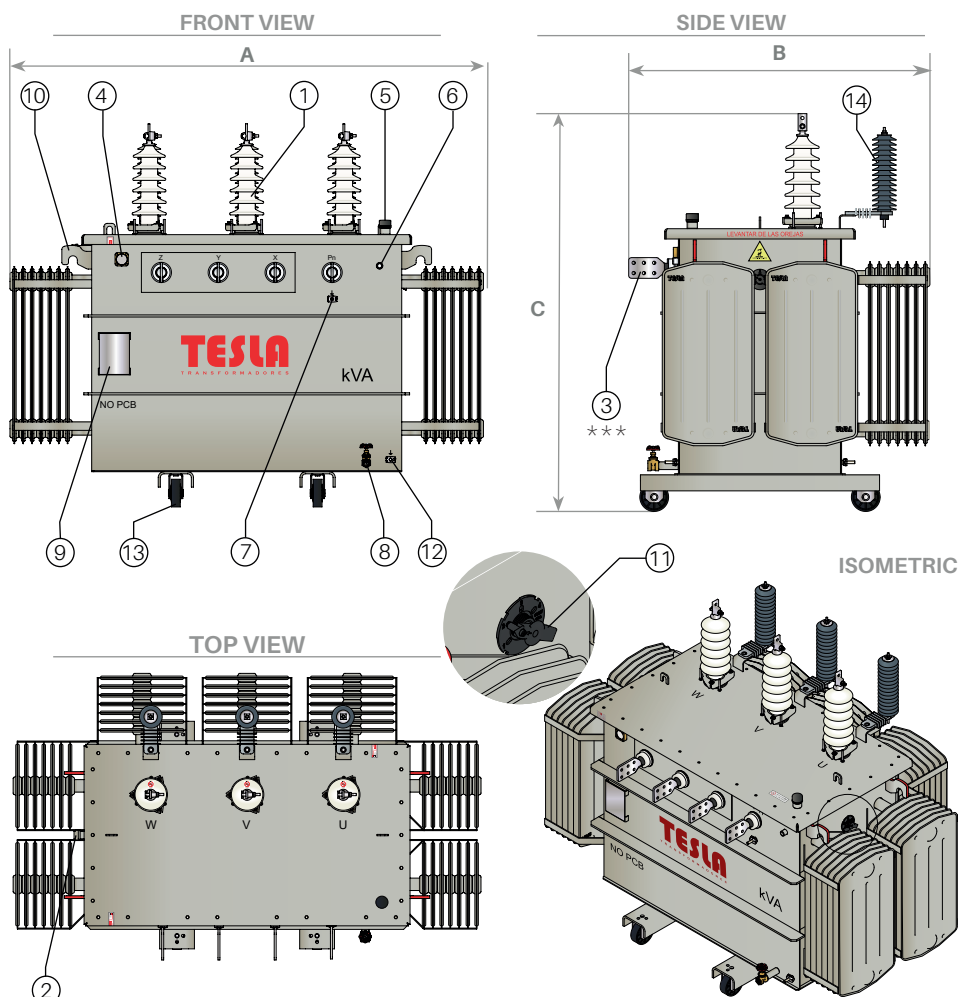
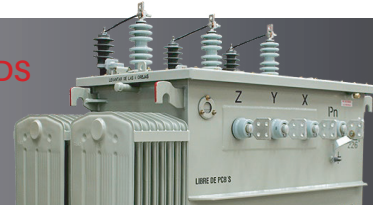


THREE PHASE OIL TRANSFORMER SERIES 34.5/1.2kV ACCORDING TO STANDARDS NTC 819 AND NTC 1658 (75≤kVA≤150), NTC 4907 (150<kVA≤2000)

Note: the designs are legal property of Nacional de Transformadores S.A.S. - Tesla Transformers due to its registered trademark. The total or partial use of Tesla Transformers' design is prohibited without prior authorization from Nacional de Transformadores S.A.S.



Rated voltage (kV)	34,5 / 1,2
Primary voltage (V)	34500 / 33000
Secondary Voltage (V)	Up to 800
Phases	3
Installation	H substation (up to 225 kVA)
Frequency (Hz)	60
Connection group	Dyn-
Tap changer	(+2-2) x 2,5% On request
Temperature rise(°C)	65
BIL (kV)	200 / 30
Cooling	ONAN / KNAN
Insulation class	Ao
Insulating liquid	Oil Mineral / Vegetable

Constituent parts

- 1 High voltage bushings.
- 2 Filling device (> 150 kVA).
- 3 Low voltage bushings.
- 4 Oil level.
- 5 Overpressure relief valve.
- 6 Thermometer pocket Neutral (from 630 kVA)
- 7 Neutral grounding terminal.
- 8 Circulation and drain valve (> 150 kVA).
- 9 Nameplate.
- 10 Lifting device.
- 11 Voltage-free branch switch.
- 12 Tank grounding terminal.
- 13 swivel wheels 90° (from 225 kVA)
- 14 Surge arrester 15 kV (customer request)
- 15 Pole hanging device (< 150 kVA).

POWER (kVA)	A (mm)	B (mm)	C (mm)	WEIGHT (kg)	IMPEDANCE AT 85°C (%)	SHORT CIRCUIT DURATION (s)	SYMETRICAL ICC (kA)	LOAD LOSSES AT 85°C Pk(W)	NO-LOAD LOSSES Po(W)	EFFICIENCY 75°C (+) (%)	SOUND PRESSURE POWER (***) (dB)
75	1290	900	1340	680	6	2	16,7	1370	390	98,17	51
112,5	1350	940	1360	800	6	2	16,7	1890	500	98,38	55
150	1410	1110	1420	1020	6	2	16,7	2400	610	98,49	55
225	1570	1140	1470	1220	6	2	16,7	3330	790	98,65	55
300	1720	1160	1520	1440	6	2	16,7	4210	950	98,75	55
400	1880	1180	1570	1690	6	2	16,7	5320	1150	98,84	56
500	1950	1230	1680	2430	6	2	16,7	6370	1330	98,90	56
630	2070	1260	1740	2710	6	2	16,7	7690	1540	98,97	57
800	2200	1290	1800	2990	6	2	16,7	9330	1800	99,03	58
1000	2320	1320	1870	3280	6	2	16,7	12000	1980	99,07	58
1250	2510	1440	1970	3980	6	2	16,7	14300	2370	99,11	60
1600	2700	1560	2070	4680	6	2	16,7	17400	2880	99,16	61
2000	2880	1670	2170	5380	6	2	16,7	20900	3430	99,19	61

(*) 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.

(***) Quantity on perforations in LV terminals according to manufacturing standard and reference norm (NTC 2501-1).

Notes

- Due to changes in technology and manufacturing methods, dimensions may change without prior notice, tolerances ± 10%.
- Additional accessories such as contact thermometer, expansion tank with buchholz relay, contact overpressure valve, magnetic level, winding thermometer, are quoted at the customer's request with additional cost.
- Up to 150 kVA do not apply: Recirculation and drainage valve, filling device, or 90° adjustable wheels.
- For self-protected transformers, the dimensions change and have an additional cost, please Check with the factory.
- Vegetable oil generates additional cost.
- 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.



TR-CO17/7452