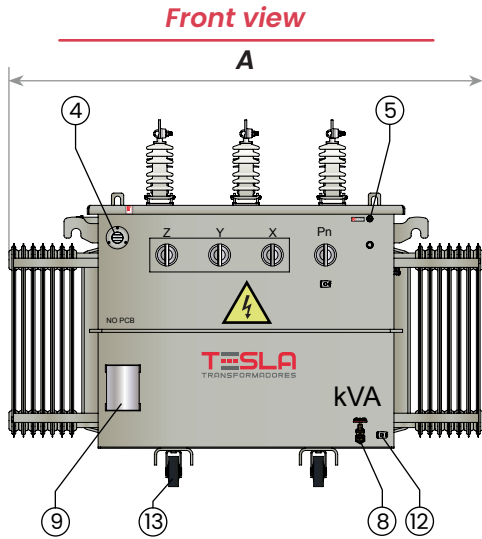
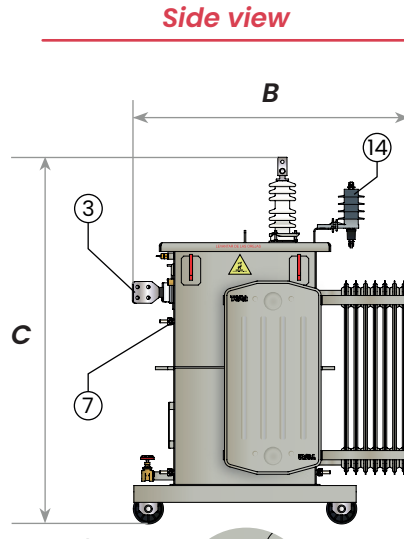


# Three phase oil transformer series 15/1,2 kV according to standards NTC 819 and 1658, (75≤kVA≤150), NTC 4907 (150<kVA≤2000).

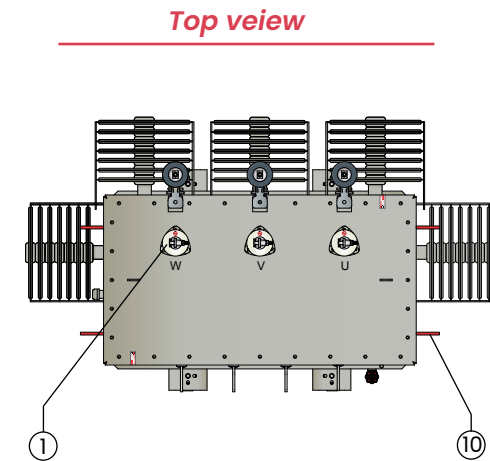
Note: the designs are legal property of **Nacional de Transformadores S.A.S. - Tesla Transformers** due to its registered trademark. The total or partial use of Tesla Transformers' design is prohibited without prior authorization from **Nacional de Transformadores S.A.S.**



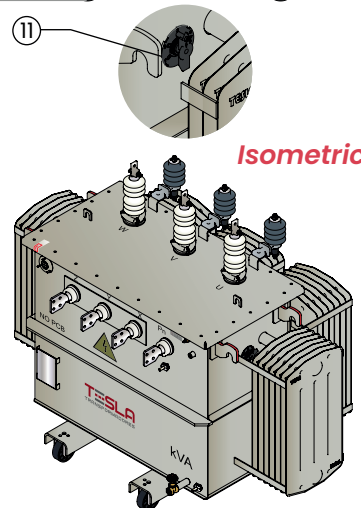
Front view



Side view



Top view



Isometric

Rated voltage (kV)	15 / 1,2
Primary voltage (V)	13800 / 13200 11400
Secondary Voltage (V)	up to 800
Phases	3
Installation	H substation (up to 225 kVA)
Frequency (Hz)	60
Connection group	Dyn-
Tap changer	(+1-3) x 2,5 % or (+2-2) x 2,5% (up to 225 kVA)
Temperature rise(°C)	65
BIL (kV)	95 / 30
Cooling	ONAN / KNAN
Insulation class	Ao
Insulating liquid	Oil Mineral / Vegetable

### Constituent parts

- High voltage bushings.
- Filling device. (>150kVA)
- Low voltage bushings.
- Oil level.
- Overpressure relief valve.
- Pocket for thermometer. (from 630 kVA)
- Neutral grounding terminal.
- Circulation and drainage valve. (>150 kVA)
- Nameplate.
- Lifting lugs..
- Voltage-free branch switch.
- Tank grounding terminal.
- Swivel wheels 90°. (from 225 kVA)
- Surge arrester 15 kV. (customer request)
- Pole hanging device. (<150kVA)

POWER (kVA)	A (mm)	B (mm)	C (mm)	WEIGHT (kg)	Oil (L)	IMPEDANCE AT 85°C (%)	SHORT CIRCUIT DURATION (s)	SYMMETRICAL ICC (kA)	LOAD LOSSES AT 85°C Pk(W)	NO-LOAD LOSSES Po(W)	EFFICIENCY 75°C (*) (%)	SOUND PRESSURE POWER (**) (dB)
15	1040	550	950	310	75	3	1,13	33,3	310	80	98,03	48
30	1050	600	970	330	90	3	1,13	33,3	515	135	98,35	48
45	1060	700	990	350	110	3	1,13	33,3	710	180	98,50	48
75	1290	760	1040	500	150	3,5	1,53	28,6	1090	265	98,65	51
112,5	1310	820	1100	650	190	3,5	1,53	28,6	1540	365	98,74	55
150	1400	880	1100	740	210	4	2	25	1960	450	98,82	55
225	1620	980	1180	920	280	4	2	25	2890	615	98,88	55
300	1740	1070	1200	1080	320	4,5	2	22,2	3675	765	98,94	55
400	1850	1090	1270	1320	370	4,5	2	22,2	4730	930	99,01	56
500	1890	1140	1290	1600	460	5	2	20	5780	1090	99,05	56
630	2000	1190	1470	2060	580	5	2	20	7140	1285	99,08	57
800	2160	1190	1520	2510	680	5	2	20	8900	1520	99,12	58
1000	2230	1260	1620	2780	820	5	2	20	1100	1780	99,15	58
1250	2310	1340	1660	3230	920	6	2	16,7	13500	2090	99,18	60
1600	2390	1430	1720	3660	1330	6	2	16,7	16700	2520	99,22	61
2000	2480	1520	1780	4060	1550	6	2	16,7	20400	3010	99,24	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 standard (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-CO1717452

