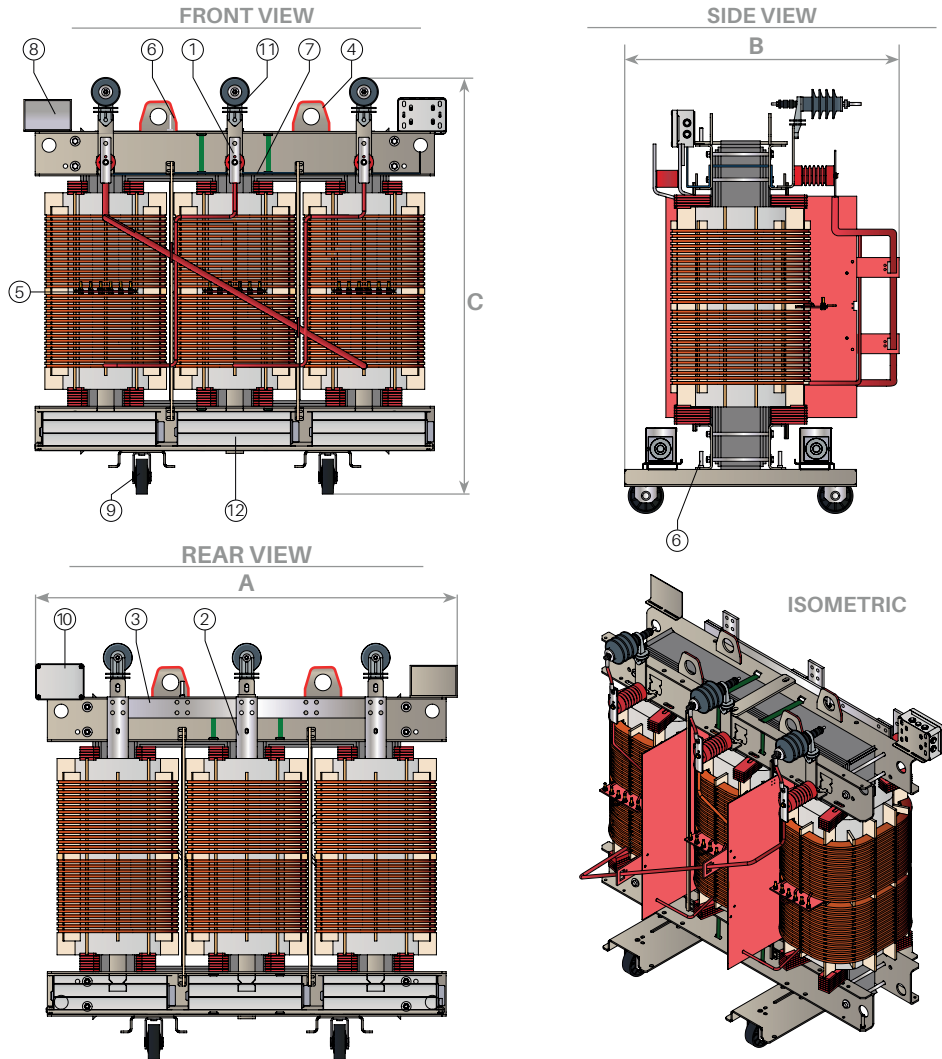
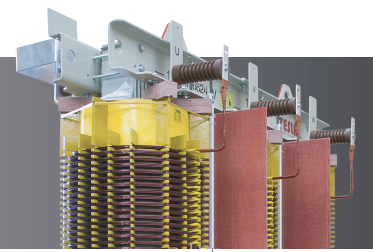


OPEN DRY TYPE TRANSFORMER CLASS H SERIES 15 / 1.1kV ACCORDING TO NTC 3445, NTC 3654 STANDARDS

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)	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	(+1-3) X 2.5 % or (+2-2) X 2.5 % (customer request)
Temperature rise (°C)	125
BIL (kV)	60 / -
Protection degree	IP-00 / IP-20 (customer request)
Cooling	AN
Insulation class	H

Constituent parts

- 1 Primary winding phase terminals.
- 2 Secondary winding phase.
- 3 Terminals neutral.
- 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 145°C (%)	SHORT CIRCUIT DURATION (s)	SYMMETRICAL ICC (kA)	LOAD LOSSES AT 145°C Pk(W)	NO-LOAD LOSSES Po(W)	EFFICIENCY 75°C (+) (%)	SOUND PRESSURE POWER (+) (dB)
30	990	830	1110	330	6	2	16,7	652	260	97,45	45
45	1010	850	1110	400	6	2	16,7	934	300	97,87	45
75	1100	870	1160	480	6	2	16,7	1444	400	98,19	50
112,5	1120	870	1190	520	6	2	16,7	2041	550	98,32	50
150	1170	880	1220	670	6	2	16,7	2579	675	98,43	50
225	1260	950	1320	900	6	2	16,7	3583	900	98,58	55
300	1320	970	1320	980	6	2	16,7	4561	1120	98,66	55
400	1410	980	1450	1300	6	2	16,7	5820	1360	98,75	60
500	1480	980	1490	1500	6	2	16,7	6949	1600	98,81	60
630	1480	990	1530	1710	6	2	16,7	8350	1870	98,88	62
800	1630	1070	1630	2080	6	2	16,7	10077	2210	98,95	64
1000	1680	1090	1760	2250	6	2	16,7	12292	2600	98,99	64
1250	1760	1100	1840	2800	8	2	12,5	14789	3030	99,04	65
1600	1890	1150	1890	3160	8	2	12,5	18459	3530	99,10	66
2000	1920	1330	1900	3820	8	2	12,5	22585	3850	99,16	66

(*) 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

(***) 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 of all three phases, on request with additional cost.
- DPS surge arresters at additional cost.
- For voltages 7620 - 4160 - 2400 V, the series voltage and the BIL change, check with the factory.
- The measurements are approximate for final plans check with the factory.
- For capacities, accessories, applications or special measures, check with the factory.
- For different or higher powers, they are manufactured to order, check with the factory.