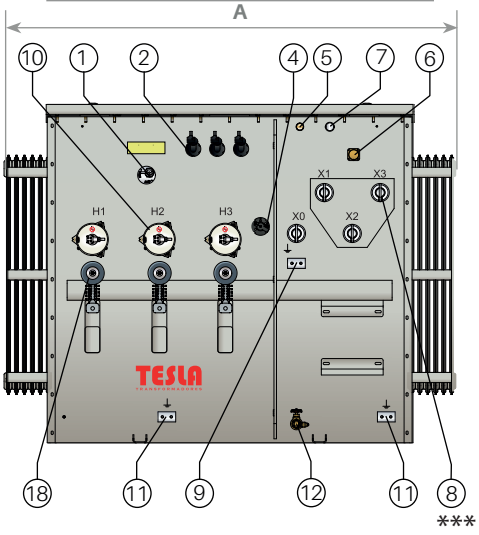
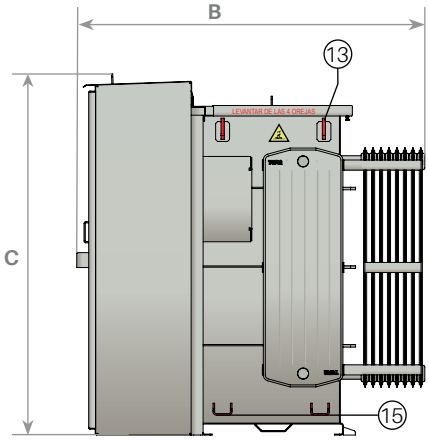
THREE-PHASE RADIAL PEDESTAL TYPE TRANSFORMER LIVE FRONT SERIES 34.5 /1.2 kV ACCORDING TO IEEE STANDARD C57.12.34 AND NTC 3997 (LOAD BREAK - EXPULSION FUSE PROTECTION AND CURRENT LIMITING FUSE)

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.

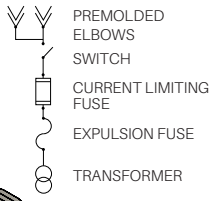
FRONT VIEW



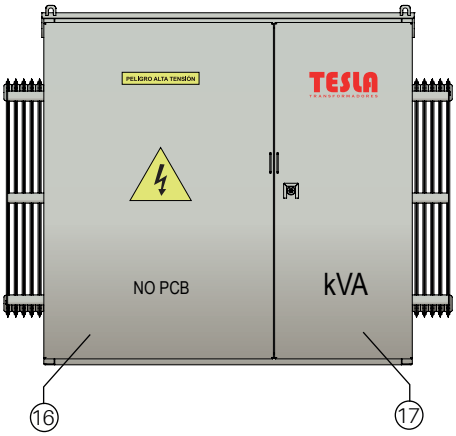
SIDE VIEW



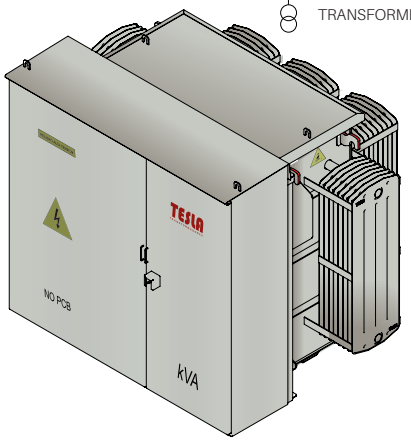
CONNECTION



FRONT VIEW WITH ENCLOSURE



ISOMETRIC



POWER (kVA)	A (mm)	B (mm)	C (mm)	WEIGHT (kg)	OIL (L)	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	1710	1550	1500	1210	530	6	2	16,7	1370	390	98,17	51
112,5	1710	1570	1500	1410	550	6	2	16,7	1890	500	98,38	55
150	1710	1680	1500	1600	600	6	2	16,7	2400	610	98,49	55
225	1830	1890	1520	1800	690	6	2	16,7	3330	790	98,65	55
300	1830	1910	1570	1970	760	6	2	16,7	4210	950	98,75	55
400	1830	2000	1600	2160	800	6	2	16,7	5320	1150	98,84	56
500	1830	2040	1710	2470	850	6	2	16,7	6370	1330	98,90	56
630	2040	2060	1780	2890	1000	6	2	16,7	7690	1540	98,97	57
800	2150	2090	1820	3300	1190	6	2	16,7	9330	1800	99,03	58
1000	2250	2120	1850	3720	1360	6	2	16,7	12000	1980	99,07	58
1250	2370	2160	1900	4120	1420	6	2	16,7	14300	2370	99,11	60
1600	2480	2200	1940	4530	1700	6	2	16,7	17400	2880	99,16	61
2000	2590	2240	1980	4940	2020	6	2	16,7	20900	3430	99,19	61

(*) Efficiency levels calculated at reference temperature of 55°C, with load factor of 50% and power factor = 1 (the calculated efficiency is in accordance with the losses established in the NTC 819 fourth update standard).
(*) Above 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.
(**) NTC 5978 sound pressure level.
(***) Number of perforations in LV terminals according to manufacturing standard and reference standard (NTC 3997).

Notes.

- *Due to changes in technology and manufacturing methods, dimensions may change without prior notice, tolerances ± 10%.*
- *Additional accessories such as DPS, oil thermometer, contact overpressure valve, magnetic level, winding thermometer, are quoted at the customer's request at additional cost., winding thermometer, are quoted at the customer's request with additional cost.*
- *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.*

Rated voltage (kV)	34,5 / 1,2
Primary voltage (V)	34500 33000
Voltage Secondary (V)	Up to 800
Phases	3
Installation	Outdoor
Frequency (Hz)	60
connection group	Dyn-
Tap changer	(+2-2) x 2,5% On request
Temperature rise (°C)	65
BIL (kV)	170 / 30
Cooling	ONAN / KNAN
Insulation class	Ao
Insulating liquid	Oil Mineral / Vegetable

Constituent parts

1. On-Off Switch.
2. Expulsion hose support assembly.
3. Voltage-free branch switch.
4. Overpressure relief valve.
5. Oil level.
6. Filling device.
7. Low voltage terminals
8. Neutral grounding terminals.
9. Porcelain type high voltage terminals.
10. Terminal for grounding.
11. Recirculation and drainage valve.
12. Recirculation and drainage valve.
13. Lifintg device.
14. Nameplate (internally).
15. Crawiling device.
16. Primary gate (high voltage).
17. Secondary door (low voltage).
18. Surge arresters 30 kV polymeric type (at customer request).

Notes:

- *Upon request, the transformer can be manufactured with the protection configuration of a Magnex switch and a current-limiting fuse.*
- *The expulsion fuse can be either oil-immersed or bay -o-net-mounted, depending on the specific requirements or preferences*

icontec ISO 9001

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