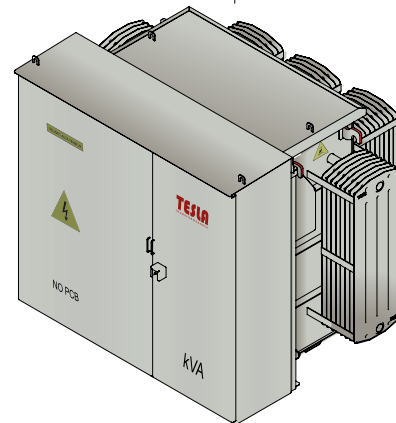
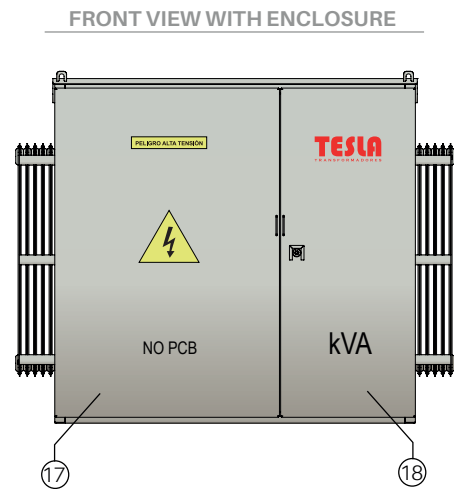
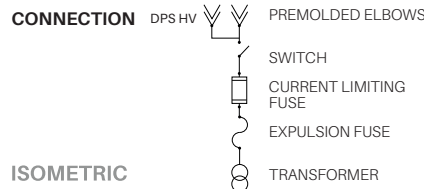
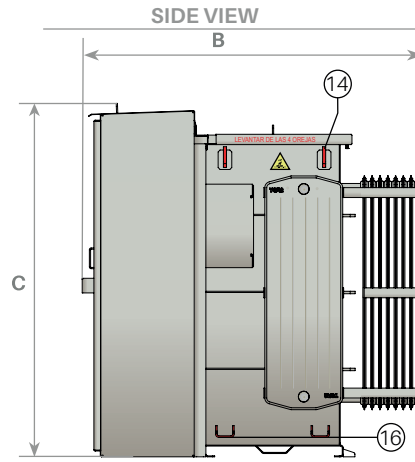
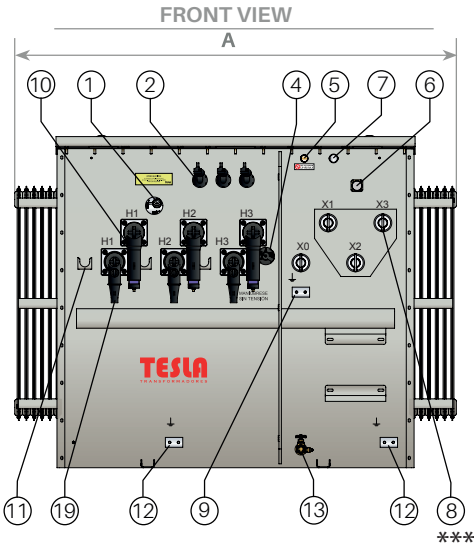


**THREE-PHASE PEDESTAL-TYPE TRANSFORMER WITH DEAD-FRONT RADIAL CONFIGURATION, SERIES 34.5 / 1.2 KV ACCORDING TO IEEE C57.12.34 AND NTC 3997 STANDARDS, FEATURING A LOAD-BREAK SYSTEM, EXPULSION FUSE PROTECTION, AND CURRENT-LIMITING FUSE PROTECTION.**

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
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)	150 / 30
Cooling	ONAN / KNAN
Insulation class	Ao
Insulating liquid	Oil Mineral / Vegetable

**Constituent parts**

- 1 On-Off disconnector.
- 2 Expulsion fuse holder assembly.
- 3 Current limiting fuse (internal).
- 4 Voltage-free branch switch.
- 5 Overpressure valve
- 6 Oil level.
- 7 Filling device.
- 8 Low voltage terminals.
- 9 Neutral grounding terminal.
- 10 Premolded type high voltage terminals.
- 11 Parking support.
- 12 Terminal for grounding.
- 13 Recirculation and drainage valve.
- 14 Lifting device.
- 15 Nameplate (internally).
- 16 Crawling device.
- 17 Primary gate (high voltage).
- 18 Secondary gate (low voltage).
- 19 Surge arresters 30 kV (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

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 55°C (+) (%)	SOUND PRESSURE POWER (+,+) (dB)
75	1710	1230	1500	1210	530	6	2	16,7	1370	390	98,17	51
112,5	1710	1250	1500	1410	550	6	2	16,7	1890	500	98,38	55
150	1710	1360	1500	1600	600	6	2	16,7	2400	610	98,49	55
225	1830	1570	1520	1800	690	6	2	16,7	3330	790	98,65	55
300	1830	1590	1570	1970	760	6	2	16,7	4210	950	98,75	55
400	1830	1680	1600	2160	800	6	2	16,7	5320	1150	98,84	56
500	1830	1720	1710	2470	850	6	2	16,7	6370	1330	98,90	56
630	2040	1740	1780	2890	1000	6	2	16,7	7690	1540	98,97	57
800	2150	1770	1820	3300	1190	6	2	16,7	9330	1800	99,03	58
1000	2250	1800	1850	3720	1360	6	2	16,7	12000	1980	99,07	58
1250	2370	1840	1900	4120	1420	6	2	16,7	14300	2370	99,11	60
1600	2480	1880	1940	4530	1700	6	2	16,7	17400	2880	99,16	61
2000	2590	1920	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".