

OIL IMMERSED TRANSFORMER

Reference list

13 MVA

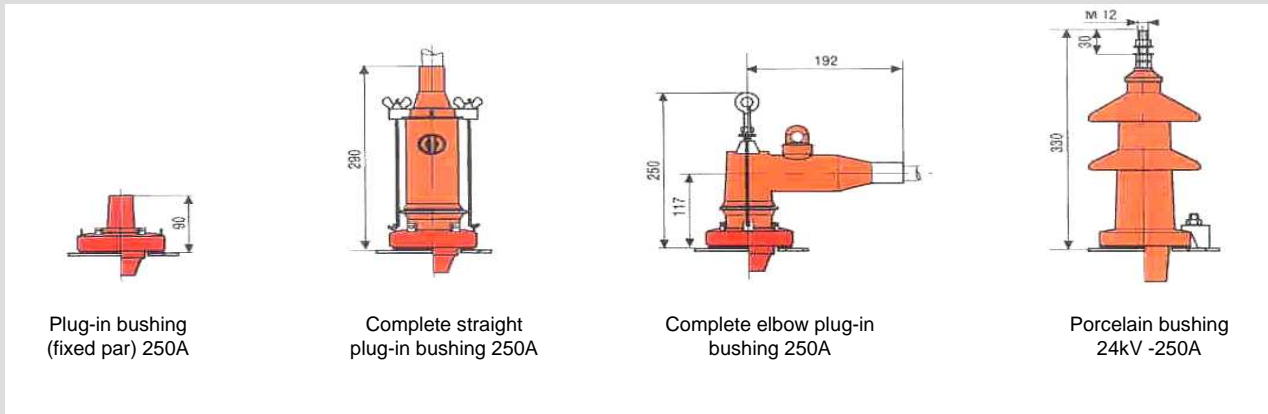
630 kVA



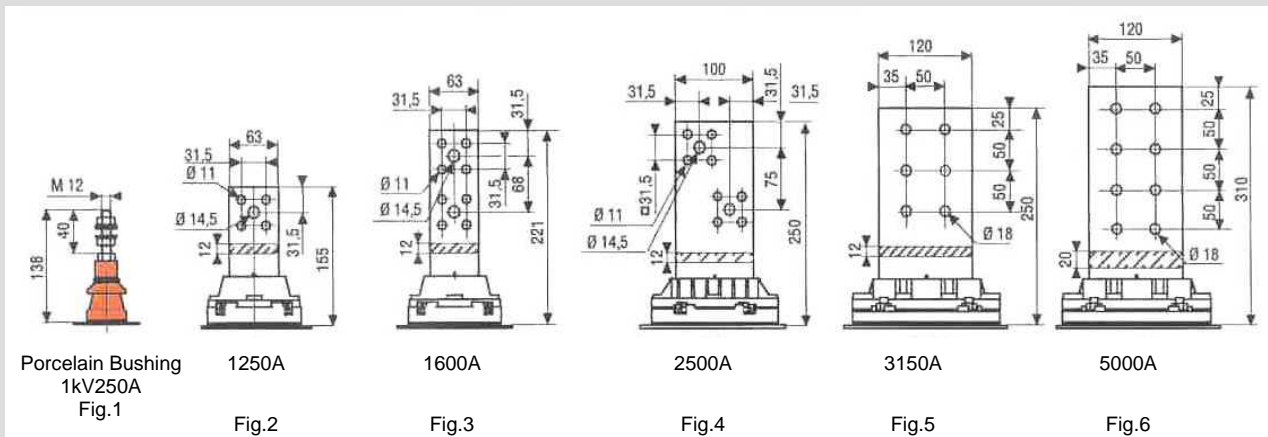
▶ BACK

Accessories

HV Bushings:



LV Bushings:



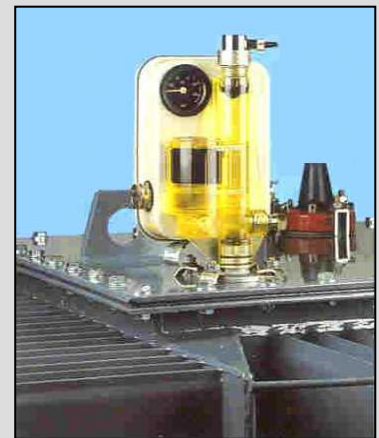
Power rating kVA	50	100	160	250	315	400	500	630	800	1000	1250	1600	2000	2500
LV Bushing B.T 410V	Fig.1			Fig.2				Fig.3	Fig.4	Fig.5	Fig.6			

Safety device:

PROTECTION RELAY

The DGPT2 relay protects the transformer while monitoring permanently:

- a gaseous us emissions and oil level (1 reversing contact).
- pressure (1 reversing contacts).
- temperature (2 reversing contact).



Breaking capacity:

CURRENT CIRCUIT VOLTAGE	AC CURRENT						DC CURRENT					
	Resistive			Inductive			Resistive			Inductive		
	220V	127V	24V	220V	127V	24V	127V	48V	24V	127V	48V	24V
GAS DETECTOR (LEVEL)	3A	3A	3A	2A	2A	3A	1A	2A	3A	1A	2A	2A
PRESSOSTAT	5A	5A	5A	3A	3A	3A	1A	3A	5A	1A	2A	4A
THERMOSTAT	15A	15A	15A	3A	3A	3A	1A	3A	5A	1A	2A	4A

Oil immersed transformers 50 to 2 500kVA – 20kV – 50Hz

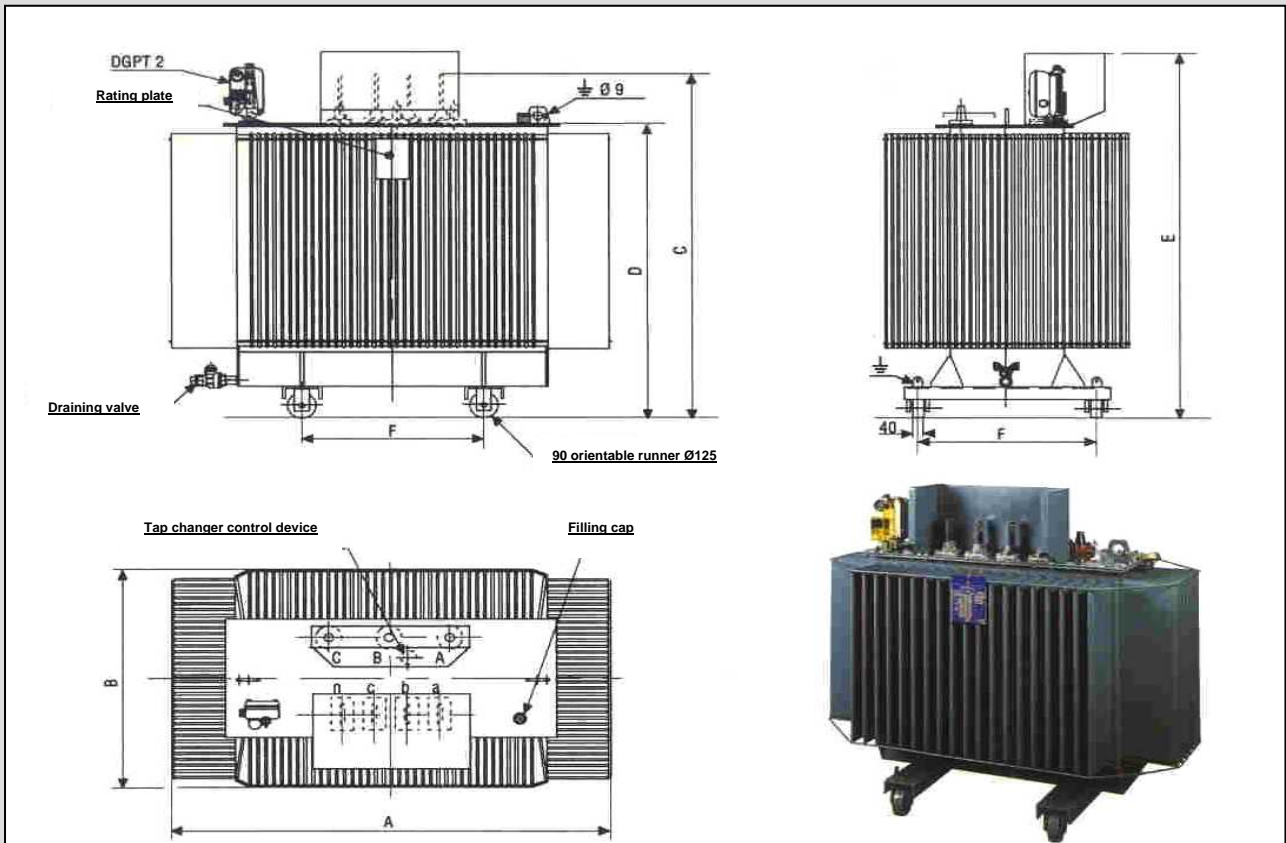
In conformity	NF	IEC
With the standard	C 52-100 C 52-112.1	76
Power rating	50.100.160.250.315.400.500.630.800.1000.1250.1600.2000.2500 kVA	



Insulation level	50 kV
Electric tests HV	50 kV applied voltage 125kVA impulse test
Electric test LV	10 kV applied voltage
Primary voltage	20 000V delta connected –taps $\pm 2.5\%$
Secondary voltage	410 V at no load, star connected

Details for manufacture	Standard equipment	Options
<ul style="list-style-type: none"> • Hermetically, full filled transformers • Copper winding LV copper sheet With paper insulation HV round wire • Adjustment of the tension through an off voltage tap changer • Step-lap cora • Magnetic circuit 	<ul style="list-style-type: none"> • 3 fixe plug-in bushing 250A • 4 tin copper pass-bar bushings (porcelain bushings for 50, 100 and 160kVA) • 2 terminals earthing • Lifting lug • Filling cap and draining valve • 4 orientable roller $\varnothing 125$ • Rating plate 	<ul style="list-style-type: none"> • 3 porcelain bushings • LV cable gland box • Safety device: DGPT2 relay • Locking device for plug-in bushings (lock not supplied) • Tank retention • Any other primary or secondary voltage • double HV or LV ratings

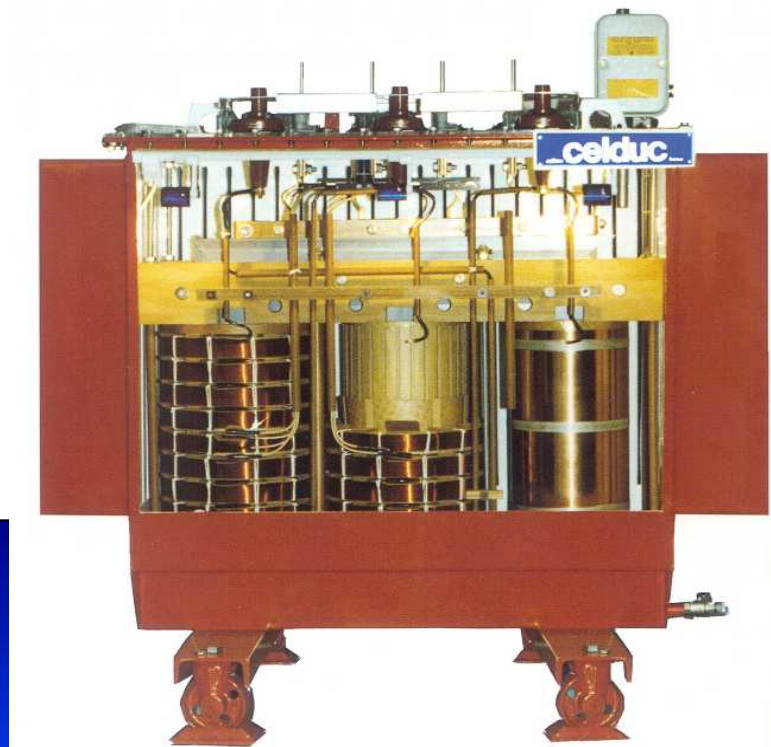
Power kVA	No load losses W	Load losses At 75°	Short circuit Impedance c/c %	Noise level (power) dB
50	145	1350	4	50
100	210	2150	4	49
160	460	2350	4	62
250	650	3250	4	65
315	710	3900	4	66
400	930	4600	4	68
500	980	5500	4	69
630	1300	6500	4	70
800	1220	10700	6	67
1000	1470	13000	6	68
1250	1800	16000	6	70
1600	2300	20000	6	71
2000	2750	25500	6	74
2500	3350	32000	6	76



Power kVA	Dimensions (mm)						Approximate masses (kg)				
	Lenght A	Width B	Height			Oil Totale	Oil		Silicone oil		Core and coils-
			C	D	E		Oil	Totale	Oil	Totale	
50	805	630	910	745	975	520	90	350	100	360	205
100	815	650	1015	850	1080	520	115	520	130	535	300
160	900	700	1095	930	1160	520	130	670	140	680	390
250	970	780	1195	1030	1370	520	210	960	235	985	550
315	1080	810	1285	1120	1460	520	235	1205	260	1230	740
400	1420	800	1345	1180	1570	670	300	1380	335	1415	830
500	1480	810	1345	1210	1600	670	340	1600	380	1640	975
630	1610	940	1365	1200	1590	670	360	1745	390	1785	1070
800	1740	1000	1585	1240	1810	670	560	2150	640	2230	1120
1000	1740	1000	1765	1530	1920	670	600	2500	690	2590	1370
1250	1820	1090	1895	1650	2040	670	690	2980	790	3080	1600
1600	1960	1190	1925	1680	2070	820	940	3640	1080	3780	1850
2000	2070	1310	2030	1780	2170	820	950	4200	1090	4340	2170
2500	2200	1350	2155	1890	2280	820	1200	5400	1370	5570	2640

- **Magnetic core punched for a better mechanical behaviour.**
- **Copper winding.**
- **Core and coils assembled and wedged in order to accept all the electrodynamic strengths.**
- **Core clamps made with beech foliated and glued to avoid any deformation in time.**
- **Wedging and clamping parts generously designed.**
- **Flexible connections between winding LV and terminals to avoid any mechanical strength and leak.**

- **And of course, always a range of special apparatus fitted to your request.**
Transformers to be placed in parallel with existing apparatus.
Starting autotransformer.
Transformers for rectifiers.
Transformers for variable speed.
Earthing transformers.



Transformer 400kVA

celduc[®]
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