



LOW TENSION DRY TYPE TRANSFORMERS AND TRIPHASIC AUTOTRANSFORMERS FROM 0,5 TO 5000 KVA



1.1. Construction features

CLARKIA transformers have been designed and manufactured strictly in accordance with standards IEC 60076-6.

Coils:

Coiling is made of copper class H-Grade 2/thermal class H.200, according to IEC 60317-3.

Insulation varnish for this copper is a polyester-IMIDA modified THEIC with a polyamide-IMIDA overcoat. This kind of winding wires are homologated according to UL-E103536 (NEMA MW-35C).

All our coils lack insulation boards, which makes them very reliable for humidity in tropical and marine climates, etc...

Insulation is achieved through fiberglass separators class F.

Coils have been designed and manufactured for use in a room temperature of 45°C with insulations class F (155°C) and a class B temperature increase (70°C), always considering the continuous operation.

Optionally, copper strips can be also used.

All coils can carry additional regulation intakes +2,5%, -2,5%, +5%, -5%, etc... upon customer request.

Core:

We work with the best qualities of magnetic mat, supplied by the world's leading manufacturers (ThyssenKrupp, f.e.).

Dimensional tolerances of materials fall within standard DIN 41.302 (Part 1).

Also magnetic properties of materials fall within standards EN 10106 and EN 10107.

All magnetic mats comply with REACH and RoHS regulations.



Varnishing:

Each unit is carefully varnished with anti-flash alquidic varnish.

Once mature, the product complies with the following international standards: BS 5629: TYPE 1.1 (CEI 85) with class F insulation.

A fungicide comes standard, which provides total protection class 0 (no growing) according to standard BS 3900 PTG 6, an additional characteristic suitable for tropicalization and using in warm, humid climates.

Metal casing:

Casing is manufactured with steel plates, 1,5. mm thick. Firstly, it is subjected to degreasing and pickling and subsequently a 70-90 microns layer of epoxy polyester powder coating is applied in furnace.

Protection of the box is **IP23** (other protections available upon request)

Paint color is RAL 7035 (other colors available upon request)



3PH TRANSFORMER 1000 KVA 440/220 V – 50 Hz



POWER RANGE THREE-PHASE TRANSFORMERS

0,5 / 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 / 125 / 150 / 200 / 250 / 300 / 400 / 500 / 750 / 1000 / 1500 / 2000 / 2500 / 3000 / 4000 / 5000 KVA.

POWER RANGE THREE-PHASE AUTOTRANSFORMERS

5 / 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 / 125 / 200 / 250 / 300 / 400 / 500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000 / 2500 / 3000 / 4000 / 5000 KVA.

- FOR HIGHER OR LOWER POWERS, PLEASE CONSULT

VOLTAGE RANGE TRANSFORMERS

PRIMARY	SECONDARY
115/220/380/400/440/660/690 V.	115/220/380/400/440/660/690 V.

VOLTAGE RANGE AUTOTRANSFORMER

115/220/380/400/440/660/690 V.

- WE CAN MANUFACTURE WITH THE INPUT/OUTPUT VOLTAGE REQUIRED BY THE CLIENT

- FREQUENCY 50/60/400 Hz

- ALL OUR MANUFACTURES ARE SUPPORTED BY A QUALITY GUARANTEE SYSTEM BASED ON THE STANDARD ISO 9001

- ALL UNITS ARE TESTED UNITARILY AND SENT WITH THEIR CORRESPONDING TEST CERTIFICATE, ACCORDING TO IEC 60076

VDE symbols	Comm.grp.	Sub-grp.	DVector diag.		Conection schem.		CEI symbols
			H.T.	L.T.	H.T.	L.T.	
A	A1					Dd0	
	A2					Yy0	
	A3					Dz0	
B	B1					Dd6	
	B2					Yy6	
	B3					Dz6	
C	C1					Dy5	
	C2					Yd5	
	C3					Yz5	
D	D1					Dy11	
	D2					Yd11	
	D3					Yz11	