

Study of the 1500VA three-phase transformer

EDUCATIONAL OBJECTIVES

- Study of a 3-phase transformer with no load, in short-circuit and loaded
- Creation of Star / Delta wiring according to the primary/secondary voltages selected
- Electrical measurements of the different values
- Calculation of the powers with the method of the 2 wattmeters

TEACHING RESOURCES & PRACTICAL WORK

Proposed practical work

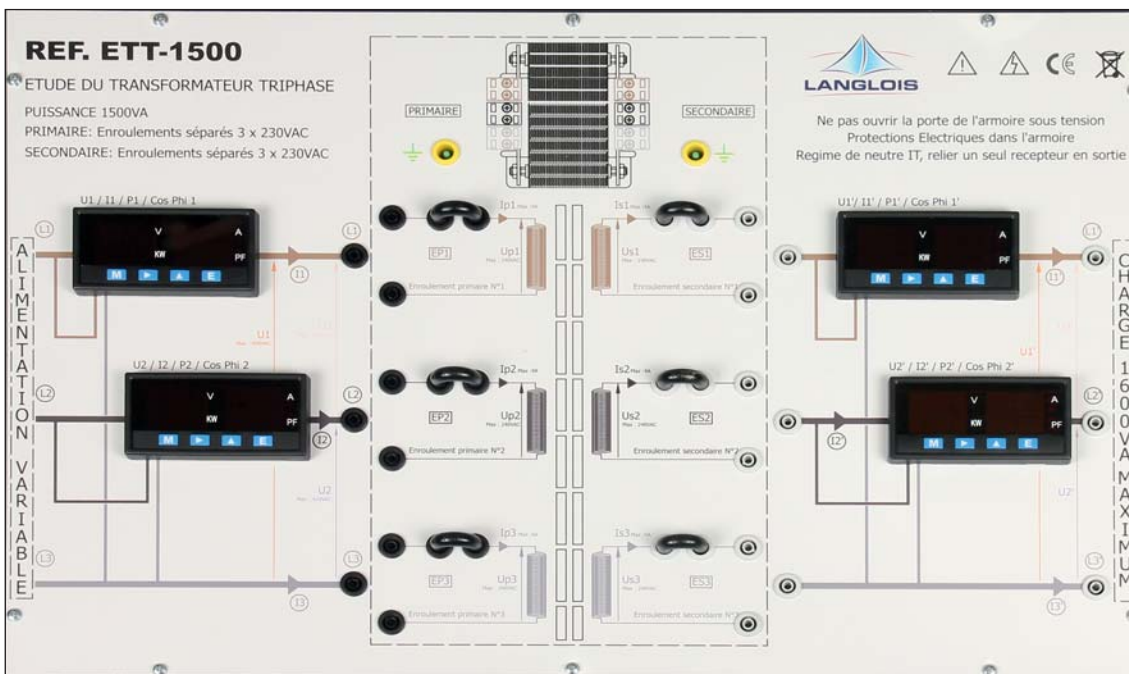
- Understanding of the characteristics given on the identification plate
- Readings of the characteristics with no load, in short-circuit and loaded
- Study and influence of the different primary and secondary couplings
- Calculation of the transformation ratio
- Study of the clock hour figure
- Power statement with the method of the 2 wattmeters
- Study of the equivalent diagram for one phase

COMPOSITION OF THE MOBILE CABINET ON WHEELS

- Emergency stop, main switch, 'On' indicator light
- Primary and secondary electrical protection
- Variable three-phase autotransformer
- 1500VA three-phase transformer
Primary 3 x 230V / Secondary 3 x 230V separate windings
- 4 digital multi-displays (2 at primary and 2 at secondary) showing the active power, voltage, current and $\cos\phi$
- 4mm safety terminals including 3 at secondary for connecting a load
- HYPRA plug with 3-m lead for linking to the three-phase network
- Dimensions: 710 x 600 x 375mm - Weight: 72 kg
- Supply voltage: 3 x 400V-AC 50Hz + N +E

An autotransformer enables the voltage at the primary to be varied. Separate windings allow for practical work with no load, in short-circuit, and loaded with different Star or Delta couplings.

ref. ETT-1500



Upper face
4 multi-displays show the active powers, voltages, currents and power factors at the primary and at the secondary.
Engraved synoptic equipped with safety sockets to facilitate the wiring.

Can be engraved in all languages.