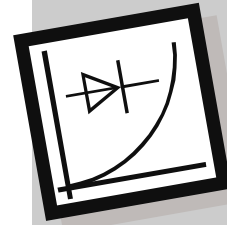
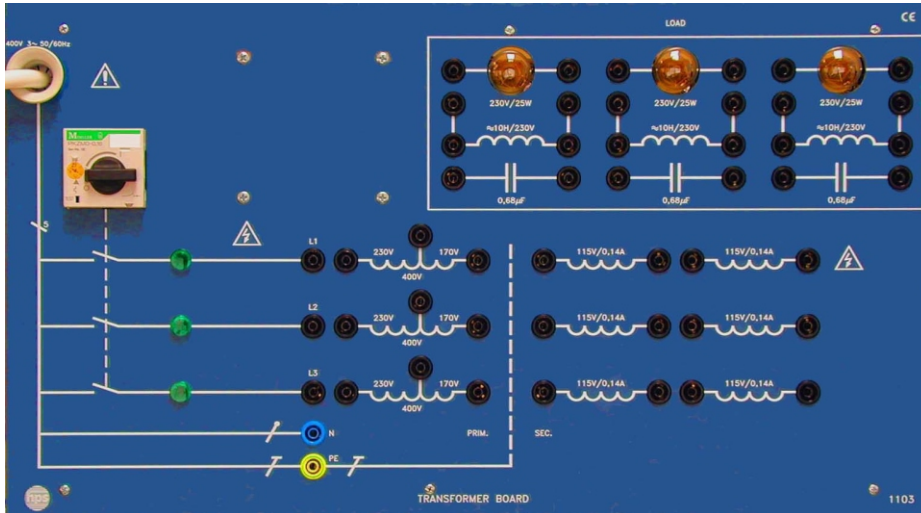


Fundamentals of Electrical Engineering



TRANSFORMER BOARD

Type 1103



TRANSFORMER BOARD (Type 1103)

- All transformer experiments on one Board
- Suitable for single- and three-phase experiments
- With ohmic, inductive and capacitive load
- With built-in protective switch

The following experiments can be conducted with the TRANSFORMER BOARD:

- No-load voltage of the single-phase transformer
- Transmission ratio of the single-phase transformer
- Current and voltage ratios of the single-phase transformer (with ohmic, inductive and capacitive load)
- Transformer losses
- Autotransformer for upward transforming
- Autotransformer for downward transforming
- The three-phase transformer in Yd/Yy/Yz/Dy/Dz circuits
- The phase-multiplying circuit
- Current and voltage ratios of the three-phase transformer (with ohmic, inductive and capacitive load)
- Unsymmetrical load of the three-phase transformer

Subject to technical modifications.

Technical Data

Mains connection

- 5-pole mains cable, approx. 1.5 m long with Cekon plug (CEE standard)
- Conductors: L1/L2/L3/N/PE; indicated by green pilot lamps
- Protective switch: release current 0.1 ... 0.16 A, preset to 0.16 A

Transformer Data

- Primary voltages: 3 x 230 V / 400 V
- Secondary voltages: 6 x 115 V / 0.14 A
- Power: approx. 100 VA

Connectable Loads

- Ohmic load: 3 lamps, 230 V / 25 W (E14)
- Inductive load: 3 coils, approx. 10 H
- Capacitive load: 3 capacitors, 0.68 μ F

Other

- Connection of conductors and connectable loads via safety jacks (4 mm)
- Dimensions / weight: 532 x 297 x 110 mm (w x h x d) / 5.1 kg

Recommended Accessories

- Experiment manual: „Transformer circuits, single- and three-phase“ (Type V 0171)
- Set of accessories (Type 1103.1), consisting of safety leads and plugs

