italtec
Technical Training Systems

Company with Quality Management System
Certified by DNV = ISO 9001/2008 =

SINGLE PHASE TRANSFORMER

MOD.3190

Technical specifications

Provided with silk screened front panel and with 4mm CE safety sockets.

Nominal voltage:
220 // 110 V AC 50Hz

Primary winding:
2 x 110V AC

Secondary winding:
2 x 55Vac

Power:
300VA (Other power on request)

Dimensions (LxWxH):
25x27x15 cm

Weight:
4 kg

CE

General

Transformers are used in all power classes both in industry and in domestic appliances.
They are used for the conversion of voltages and current.
This product gives an important instrument for the easy approach of the students with some simple but fundamental concepts of the electrical engineering.
Primary and secondary windings are divided in several sections to allow many possibilities of connections. Housed in a robust metallic case, it's easy to use and manage thank to the table-top unit format.
Power: 300VA; Frequency: 50-60Hz;
Primary/secondary: 220/110V
Primary: 2x110V ac; Secondary: 2x55V ac;

- *Imprinted terminal boards with the synoptic..*
- *Protection against thermal overload*
- *All connections on 4 mm safety sockets included thermal contact.*
- *Manual explaining theory and practice for laboratory experiments*

Didactical purpose

- Complete and simplified equivalent circuits;
- Measurement of the individual variables
- Transformation of current and voltage
- Measuring the rush current using an oscilloscope
- Measurement and calculation of the no-load values
- Measurement and calculation of the short-circuit values
- Measurements with a variable load R, L & C
- Determining the efficiency
- Evaluating the measured values
- Phase angle between primary and secondary windings and the effect of asymmetric loading in the circuit groups Yy, Yd, Yz, Dy

Options

Depending on the specific requirements of the application transformers could be designed and supplied with voltages and power 'on request' for primary and secondary.

Accessories

A full range of accessories and options are available like measuring modules such as voltmeter, ammeter power meter, connection cables and power supplies.

Resistive load
MOD.3020-R

Inductive load
MOD.3020-L

Capacitive load
MOD.3020-C

MOD.3196
Connection Leads Set

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