MOD.4165

Technical specifications

Industrial, complete with base plate, provided with silk screened terminal board and with 4mm safety sockets.

Modes:
Motor: self, series, compound and externally excited.
Generator: self, compound and externally excited.

Nominal voltage: 220Vdc
Excitation voltage: up to 220Vdc
Nominal power: 1100W (as motor)
1000W (as generator)
(Other power on request : up to 9kW)
Nominal speed: 3000 rpm
(Mod.4165-4: 1500 rpm)
Dimensions: (LxPxAxH) 35x18x25cm
Weight: 10 kg
Shaft H: 90 mm

Using this special DC machine, it is possible to realize all the scheduled connections like: series, compound and shunt.
It also allows to study the behaviour of the partial series excitation.
This machine is often used in the didactical field.

- Imprinted terminal boards with the synoptic.
- All connections on 4mm safety sockets included thermal contact.

As indicated on the silk screened terminal board, the machine windings are:
1 - A1-A2 rotor winding
2 - D1-D2 series winding 100%
3 - D1-D3 series winding 80%
4 - D2-D3 series winding 20%
5 - E1-E2 excitation winding

Didactical purpose
- Measurement of the windings resistance
- Measurement of the mechanical losses and the iron losses
- Measurement of the conventional efficiency
- Magnetizing characteristic of a DC generator
- Regulation characteristic of a DC generator
- Direct test for external characteristic
- Speed control in the DC motor

Options
Depending on the specific requirements of the application the machine can be provided with two shaft ends, with other power values and can be designed with the appropriate number of poles in order to have the required nominal speed.
(Mod.4165-4: 4 poles DC poli-excitation machine 1500 rpm).

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

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