

DC poli-excitation machine

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

MOD.3165

Technical specifications

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

Modes:

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

Nominal voltage:

220Vdc

Current:

1.6A

Excitation voltage:

220Vdc

Excitation current:

0.2A

Nominal power:

250W (as motor)

150W (as generator)

Other power on request

Nominal speed:

3000 rpm

Dimensions: (LxPxH)

35x18x25cm

Weiaht

9,5 kg

CE

General

Using this special DC machine, it is possible to realize all the scheduled connections for a DC machine: series, compound and shunt. In particular, it allows to study the behaviour of the partial series excitation.

This machine is often used in the didactical field

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



- Measurement of the windings resistance

Base plate with four rubber feet.

engagement with other machine.

With coupling cog for easy

Protection against thermal

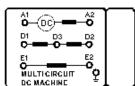
- Measurement of the mechanical losses and the iron losses
- Measurement of the conventional efficiency

overload.

- Magnetizing characteristic of a DC generator
- Regulation characteristic of a DC generator
- Direct test for external characteristic
- Speed control in the DC motor

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





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.3165-4: 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.



Starting rheostat MOD.3010

Excitation rheostat MOD.3012



Resistive load for DC generator MOD.3016-R

S

Speed control with SCR for DC machine MOD.3230

italtec Technical Training Systems S.R.L.

20129 - MILANO - ITALIA - Viale Regina Giovanna, 35 Tel. +39 02 90 721 606 - Fax. +39 02 90 720 227



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