

Compound excitation DC machine

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

MOD.3160

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: 0,17A

Nominal power: 250W (as motor) 200W (as generator) Other power on request

Nominal speed: *3000 rpm*



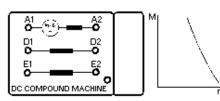
General

The COMPOUND motor, if supplied with constant voltage, runs at constant speed.

This machine is then used when a constant speed is required in the application; typical use of this machine are machine tools, pumps and for rolling mills.

As indicated on the silk screened terminal board, the machine windings are:

- 1 A1-A2 rotor winding (Armature)
- 2 D1-D2 series winding
- 3 E1-E2 excitation winding





- synoptic.
- Base plate with four rubber feet.
- With coupling cog for easy engagement with other machines.
- Protection against thermal overload
- All connections on 4 mm safety sockets included thermal contact.
- Manual explaining theory and practice for laboratory experiments

Didactical purpose

- Measurement of the windings resistance
- Unload test of the motor
- Direct test of the motor
- External characteristic determination for a DC generator
- Regulation characteristic determination for a DC generator

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.3160-4: 4 poles DC compound machine 1500 rpm).

Accessories

A full range of accessories is 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



Speed control with SCR for DC machine MOD.3230

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