

Compound machine DC motor/DC generator

MOD.4160

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*

*Excitation voltage:
220Vdc*

*Nominal power:
1100W (as motor)
1000W (as generator)
Other power on request*

*Nominal speed:
3000 rpm*



General

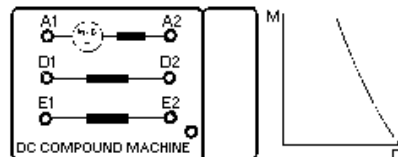
Compound machine works as motor or as generator.

Modes:

- Motor: self, serie & compound.
- Generator: self, compound & externally excited.

As compound motor, if supplied with constant voltage, runs at constant speed.

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



- Imprinted terminal boards with the synoptic.
- Base plate with four rubber feet.



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

- 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

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.4160-4: 4 poles DC compound machine 1500 rpm).

Accessories

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



Starting rheostat
MOD.4010



Excitation rheostat
MOD.4012



Connection lead
MOD.4196



Speed control with SCR for DC machine
MOD.4230