

### MOD.4140

#### Technical specifications

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

Modes:  
Motor  
Self- and external excited generator.

Nominal voltage:  
180÷220Vdc

Excitation voltage:  
220Vdc

Nominal power:  
1100W (as motor)  
1000W (as generator)

Other power on request

Nominal speed:  
3000 rpm

Dimensions: (LxWxH)  
35x18x25cm

Weight:  
10 kg



The SHUNT 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.

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

As indicated on the silk screened terminal board, the machine windings are:  
1 - A1-A2 rotor winding (Armature)  
2 - E1-E2 excitation winding

#### Didactical purpose:

- Reversing the rotation direction
- Direct test for mechanical characteristic (torque as function of the speed)
- Direct test for electro-mechanical characteristic (torque, speed, input current, efficiency as function of the output power)
- Motor connection
- Typical machine data evaluation
- Measurement of the windings resistance
- Unload test of the motor
- External characteristic determination for a DC generator
- Regulation characteristic determination for a DC generator

#### Options

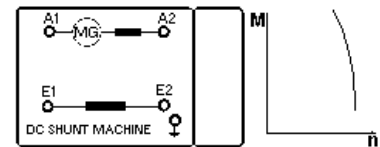
Depending on the specific requirements of the application the machine can be provided with two shaft ends, with other power values and can be designed with the appropriate number of poles in order to have the required nominal speed. (MOD.4140-4: 4 poles DC compound machine 1500 rpm).

#### 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.



- With coupling cog for easy engagement with other machine.
- Protection against thermal overload.
- Base plate with four rubber feet.



Starting rheostat  
MOD.4010



Excitation rheostat  
MOD.4012



Connection lead  
MOD.4196



Speed control with SCR for DC machine  
MOD.4230