

MOD.4040

Technical specifications

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

Nominal voltage:
230 / 400Vac 50Hz (delta / star)

Nominal current:
4,5 / 2,5A (delta / star)

Nominal power:
1,1kW (Other power on request)

Power factor ($\cos\phi$):
0,8

Nominal speed:
2800 or 1400 rpm

Dimensions: (LxDxH)
35x22x25cm

Weight:
13 kg

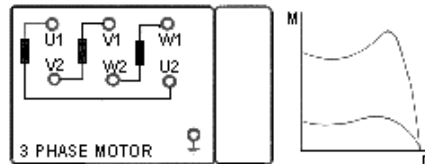
Shaft H:
90 mm



The squirrel cage asynchronous motor is the most used. It is also called rotating field motor, and it doesn't keep its speed rigorously constant, but it allows small speed variations.

When the stator windings are divided into three coils, the rotating field makes a complete turn for each period and the motor is called "2 pole type". If the windings are divided in three contiguous triplets along the stator periphery, the magnetic field makes half of a turn for each period, and the motor is called "4 pole type".

The rotor is short circuit type. The motor can be started connecting it directly to the main power both in star or delta (Y-D) configuration.



- Imprinted terminal boards with the 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

- Motor connection
- Typical machine data evaluation
- 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 and power factor as function of the output power)
- Measure of the ohmic windings resistance
- No-load test of the motor
- Short-circuit test of the motor

Options:

Depending on the specific requirements of the application the machine can be provided with two shaft ends and can be designed with the appropriate number of poles in order to have the required nominal speed. (MOD.4040-4: 4 poles 3PH squirrel cage motor 1400 rpm).

Optional Accessories :

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



3PH motor speed regulator
MOD.4240



Direct starter
MOD.4302



Starting reverser switch
MOD.4303



STAR / DELTA switch
MOD.4308