

3-phase Squirrel Cage Asynchronous Induction Motor

MOD.8040

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

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

Nominal current:
25A / 15A (delta / star)

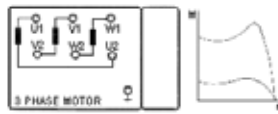
Nominal power:
7,5kW (other power on request)

Nominal speed:
2800 rpm



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. 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.



Motor can be started connecting it directly to the main power both in star or delta (Y-D) configuration.

- Included 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



- Imprinted terminal boards with the synoptic.
- With coupling cog for easy engagement with other machines.
- Protection against thermal overload
- All connections on 4 mm safety sockets included thermal contact.

Options

Depending on the specific requirements of the application the machine can be provided with

- two shaft ends,
- the appropriate number of poles in order to have the required nominal speed. (ie: MOD.8040-4: 4 poles 3PH squirrel cage motor 1450 rpm).



Optional accessories:

A full range of accessories and options are available like electromagnetic brakes, powder brakes, voltmeters, ammeters, power meters, connection cables, power supplies, Speed Encoders, Torque meters and sensors etc.



3PH motor speed regulator
MOD.8240



Starting reverser switch
MOD.8303



Rail bed
MOD.6030



Tabletop rail bed
MOD.6030B