

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

Three-phase slip ring asynchronous motor

induction motor.

Wound rotor induction motor qualities.

compared to squirrel cage motor.

02 **Q**

resistance.

- Excellent starting torque for high inertia loads.

- Low starting current compared to squirrel cage

- Higher maintenance of brushes and slip rings

machine is known as a *doubly-fed induction*

- Measure of the ohmic windings

- No-load test of the motor

test of the motor

- Conventional efficiency

- Measurement of the slip [s]

- Measure of the transforming ratio

- Short-circuit test of the motor Direct

- The generator version of the wound rotor

generator, a variable speed machine.

MOD.4050

Technical specifications

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

Nominal voltage: **220 / 380/400Vac 50Hz** (delta / star)

Nominal current: 4/ 3A (delta / star)

Nominal power: 1000W (Other power on request: up to 9kW)

Power factor (cosφ): 0,8

Nominal speed: 2800 rpm (optional 1400 rpm)

Dimensions: (LxDxH) 40x21x25cm

Shaft H: **90 mm**

Weight: **18 kg**





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A wound rotor induction motor has a stator like the squirrel cage induction motor, but a rotor with insulated windings brought out via slip rings and brushes. However, no power is applied to the slip rings. Their purpose is to allow resistance to be placed in series with the rotor windings while starting. This resistance is shorted out once the motor is started in order to restrict the inching current.

The slip ring motor is normally used for high power.

• 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
- 4 mm safety sockets for all connections and thermal contact.
- Manual explaining theory and practice for laboratory

experiment

Didactical purposes

- 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, efficency and power facto ras function of the output power)

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.4050-4: 4 poles 3PH slip ring motor 1400 rpm)

Accessories:

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



Three-phase motor speed regulator MOD.4240



Starting rheostat MOD.4011

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