

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

THREE-PHASE SYNCHRONOUS MACHINE

MOD.4070

Provided with silk screened front panel and with 4mm CE safety sockets.

Nominal voltage: 220/380-400V (delta/star) 50Hz

Nominal current: 2,8 / 1,6A (delta/star)

Excitation voltage: 180÷220Vdc

Excitation current: **0.8A**

Synchronous speed: 3000 rpm (or 1500rpm)

Power: 1000W (as generator) 800W (as motor)

Dimensions (LxWxH): 35x18x25 cm

Weigh **16 kg**

Shaft H: **90 mm**

CE

General

For demonstration and studying AC synchronous machines. Each phase of the stator windings have independent terminals and are identified on the faceplate to allows connection both in delta and star configuration.

The rotor of this machine is a salient pole type with all properties of industrial synchronous machines. It is possible to operate this machine as a three phase synchronous generator or as motor. Variable DC excitation is delivered via a slip rings and brushes.



- 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

- Measurement of the phase windings resistance
- Measurement of the excitation winding resistance
- No load test of a synchronous generator (alternator)
- Short circuit characteristic of a synchronous machine
- External characteristic of a synchronous machine
- Regulation characteristic of a synchronous machine

Options

As motor this machine needs a prime motor to be driven up to the synchronous speed.

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.4070-4: 4 poles synchronous machine 1500 rpm).

Accessories:

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



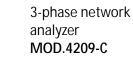
Resistive load MOD.4020-R



Capacitiev load MOD.4020-C



Inductive load MOD.4020-L



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