

MOD.3174

Technical specifications

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

Excitation voltage:
0-25Vcc

Excitation current:
0 – 1,00A

Nominal power:
500W (Other power on request)

Maximum torque:
5Nm
(also available 12 Nm,
35Nm)

Minimum speed:
40 rpm

Maximum speed:
3000 rpm

Dimensions (LxWxH):
25x15x24 cm

Weight:
5 kg



General

Magnetic powder brake is used as a mechanical load for the torque detection of electric motors.

A slight excitation power is required and the full braking torque is available even at standstill.

Torque recording is made using a load cell or a rotating torque-transducer or with the classical balance system.

The brake is for that provided with graduated arms, weights and counter weight for the torque measurement. Linked to the machine via a free shaft and with cog coupling sleeve and anti-vibration base plate. External cooling

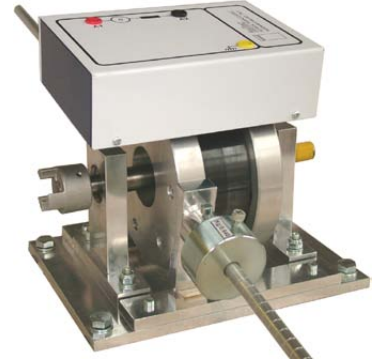
Didactical purpose

This device is used for mechanical and electro-mechanical characteristic detection of any motor to be test.

Thanks to its easy use, it is possible to detect the mechanical characteristic of a motor, that means the torque variation as function of the motor speed and the electro-mechanical characteristic that means torque, speed, input current, efficiency and power factor as function of the output power.

Accessories

A full range of accessories are available like measuring instruments, connection cables and power supplies.



- Imprinted terminal boards with the synoptic.
- Base plate with four rubber feet.
- With coupling cog for easy engagement with other machines.
- All connections on 4 mm safety sockets included thermal contact.
- Manual explaining theory and practice for laboratory experiments.

Torque meter MOD.3180C



Rotating torque transducer for torque detection



Coupling gears

