

## Hub Motor MI – H series

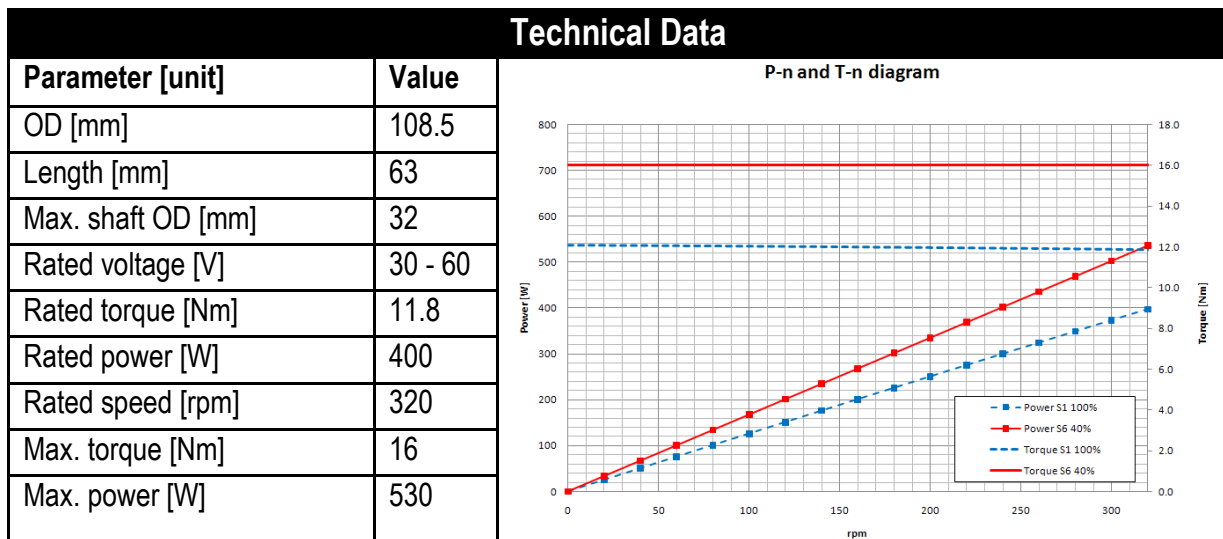
For vehicle propulsion purposes the high torque motors of Magnetic Innovations are perfectly suited to function as a hub motor. The outer runner motor concept enables a seamless integration of the motor into the hub of the wheel.

The motor control electronics is highly efficient and is optionally located inside the hub motor housing. The integration of the motor control electronics leads to a fully functional unit. The control of the hub motor is ideally suited for sensorless control for further cost saving and increased reliability. To make full use of the available supply voltage the current control is based on space vector modulation.

For high series production the hub motor design is adapted for automated winding in order to minimize production costs. Furthermore the so called cogging of the motor that is associated with permanent magnet motors is minimized without the traditional and cost increasing skewing of the stator lamination.

Key features are:

- High torque density
- High efficiency
- Transmission not required
- High reliability and lifetime
- Quiet operation
- Maintenance free
- Cost efficient design



Note that other dimensions are also possible. Consult us for more information.