

SEVCON®

Partner with Performance



HypAC

HYDRAULIC POWER STEERING

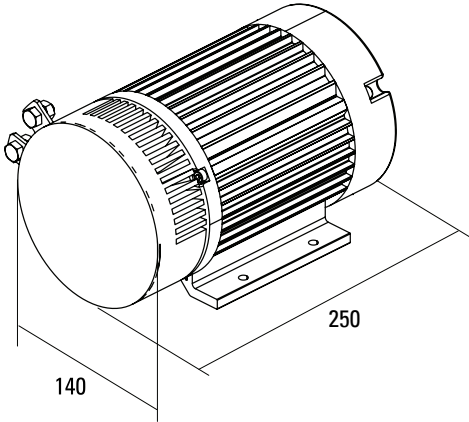
Specifically designed to offer a brushless alternative to DC series pump systems the HypAC, brushless permanent magnet AC motor and integrated controller, provides significant performance advantages over an equivalent DC system. HypAC simplifies the path to a completely brushless vehicle design.

FEATURES

- Highly efficient brushless, maintenance free motor perfectly suited to high duty cycle applications such as hydraulic power steering.
- Soft start significantly reduces inrush currents and acceleration forces, improving battery life and mechanical reliability.
- IP54 protection
- Integrated CoolFlow thermal management ensures that the full operating specification is achieved in a +60°C ambient.
- The system can be supplied fully assembled with hydraulic pump and tank thus saving production line assembly time.
- Hydraulic load sensing for optimal power delivery and reduced audible noise.



HypAC



KEY PARAMETERS

Model	Voltage (VDC)	S1 (kW)
H2412	24-36	1.5
H4812	36-48	1.2
8012	72-80	1.2

ACCESSORIES

Available as a standalone HypAC unit or as a hydraulic powerpak assembly with:

- Oil tank
- Gear pump
- Pressure relief valve
- Single or dual pump options available

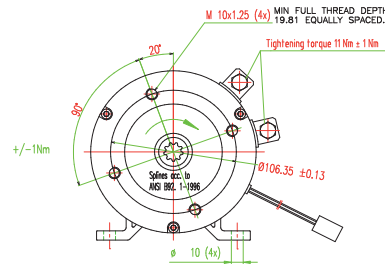
SIMPLE APPLICATION

Its simple interface mimics typical DC motor/contacter system. An additional fault reporting interface is available to provide operating status to a vehicle controller.

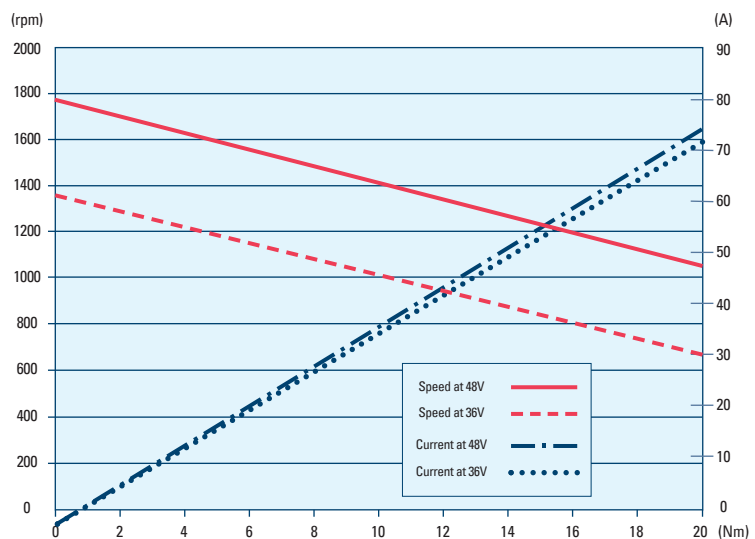
ENHANCED OPERATING MODES

Open loop mode for full speed at available battery voltage to mimic DC motor operation. Closed loop mode for fixed speed operation to give consistent performance across varying operating voltages. Load compensation mode for optimal energy efficiency and reduced system audible noise. The motor speed is automatically regulated relative to the applied load.

MECHANICAL INTERFACE



TYPICAL SPEED TORQUE PERFORMANCES (H2412 AND H4812)



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