Electronic Transmission Oil Pump

Description

Magna Powertrain’s Auxillary Electronic Oil Pump for Idle Stop & Go (Start/Stop) & Hybrid transmissions maintains lubrication and pressure in the transmission during engine shut-off and operates to supplement the mechanical oil pump, resulting in significant reductions in fuel and CO₂.

Features/Specifications

- Provides oil flow, independent of transmission RPM, to maintain hydraulic pressure for lubrication and actuation.
- “Enabler” for stop start systems to provide significant CO₂ benefits, including “coasting” and “sailing” functions.
- Operable as a “boost” pump to allow downsizing of the mechanical pump, improvements in shift quality and launch response - system CO₂ reductions up 2.7g during NEDC.
- Robust and efficient BLDC motor technology designed and manufactured at Magna Powertrain. Cost effective motor platforms covering 50W – 600W power range.
- Available with integrated motor controller (inverter), designed and manufactured at Magna Powertrain.
- Optionally combined as a module with a mechanical pump: functional integration to reduce costs and complexity; simplification of interfaces & assembly in the transmission.
- High voltage variant completely eliminates the mechanical transmission oil pump, particularly in HEV’s.

Innovation Pillars

CLEANER   LIGHTER   SMARTER   AFFORDABLE