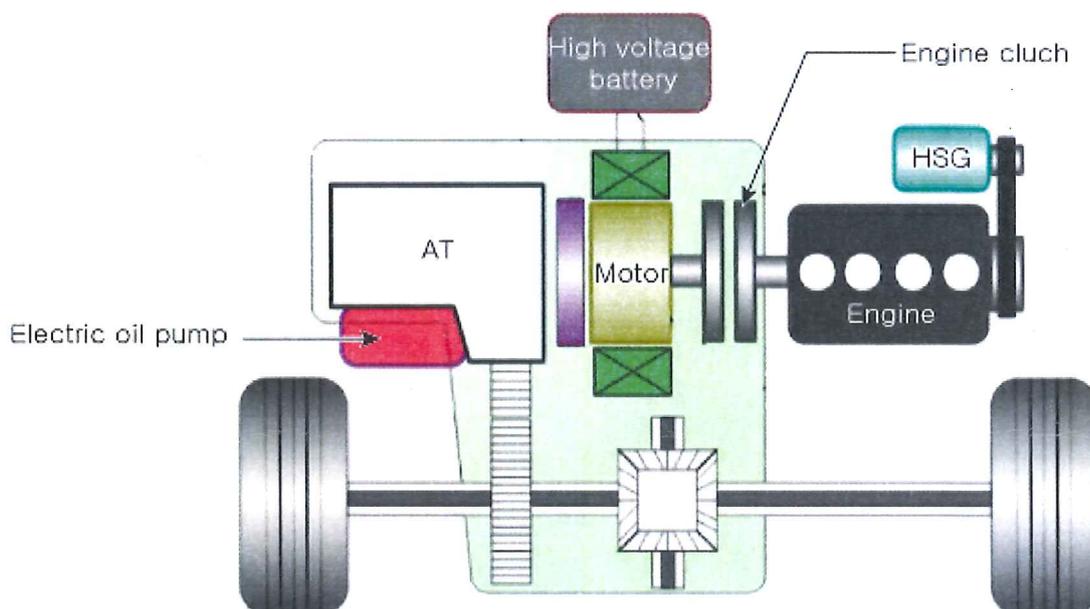


## 2018 > G 2.0 GDI NU(PHEV) > G 2.0 GDI NU(PHEV) > Hybrid Motor System > Hybrid Motor Assembly > Description and Operation

Bedöm detta dokument efter att ha granskat längst ner på denna sida

### DESCRIPTION

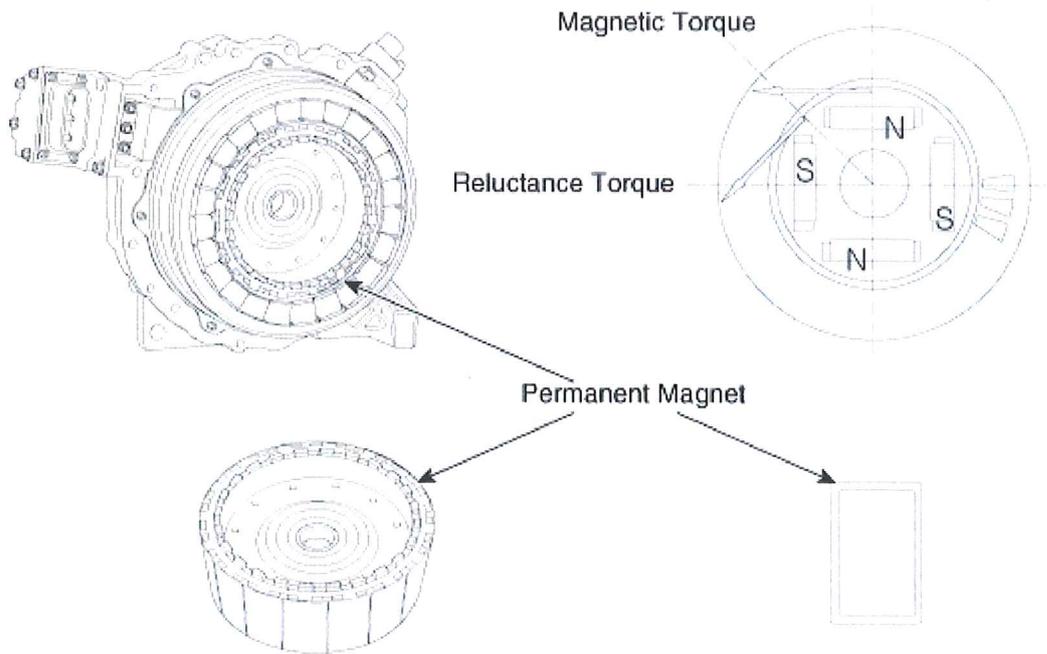
- The Hybrid motor system is equipped with two electric motors (HSG, Drive motor).
- The traction motor operates to move the vehicle and to provide lower Noise, Vibration, Harshness (NVH) during driving and to achieve fuel efficiency.
- The electric motor takes on the role of a generator during deceleration and braking.
- The Hybrid Starter Generator (HSG) starts the engine while the vehicle is in motion.



### OPERATION PRINCIPLE

The drive motor is an IPM (Interior Permanent Magnet) type small-sized / high-efficiency general industrial motor. It is an optimized PMSM (Permanent Magnet Synchronous Motor) for automobile usage that allows high-torque driving and a wide range of speed adjustments.

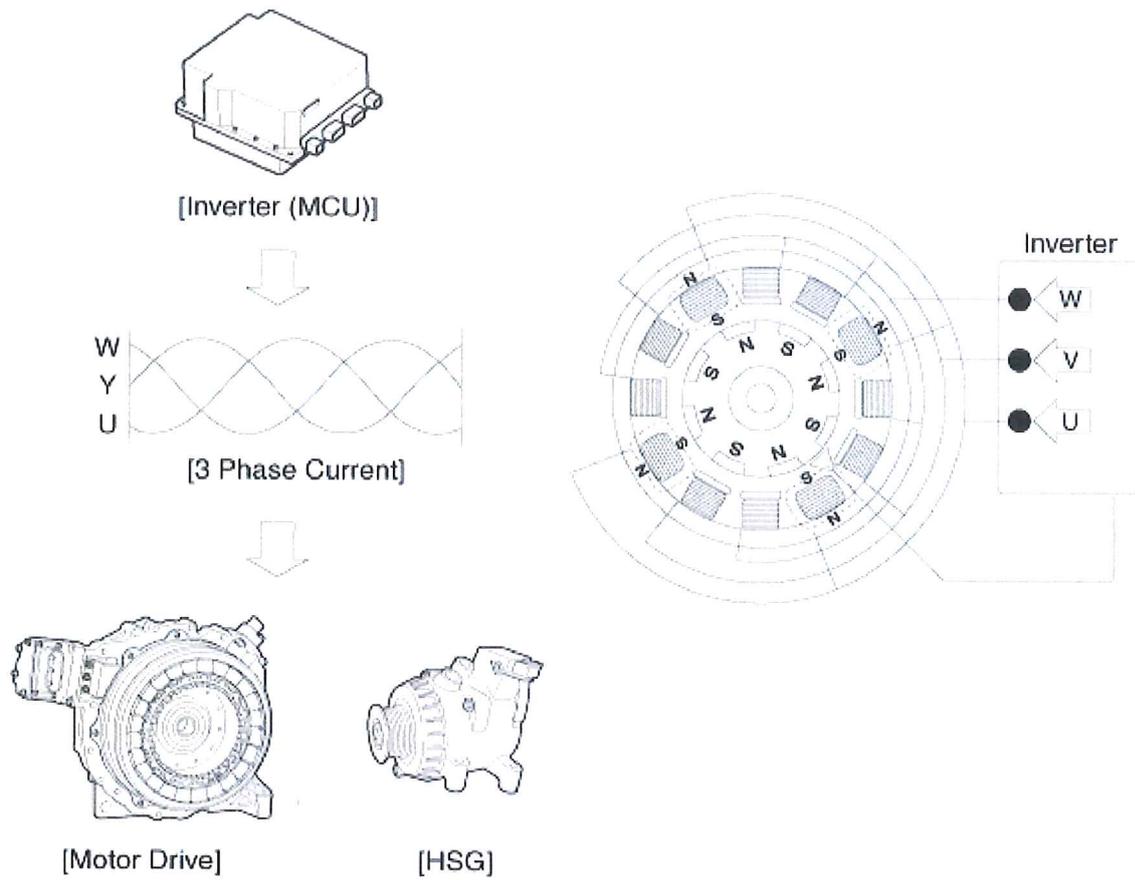
The PMSM type drive motor is embedded with IPM to provide high-output and high-torque.



The operating principal of the electric motor is based on the torque generated by the interaction of the electric magnet in the stator and the interior magnet embedded in the rotor.

When the inverter (MCU, Motor Control Unit) 3-phase alternating current flows in the winding coil on the stator coil, a rotating magnetic field is formed. This generates rotating torque through electromagnetic induction from the interaction among the magnets embedded in the rotor. This power rotates the motor.

The speed of the rotating magnetic field applied on the stator and the actual rotator speed are synchronized.



**\* Tack för ditt samarbete för mer kvalitet. Bedöm säkert detta dokument innan du stänger.**