

Engine

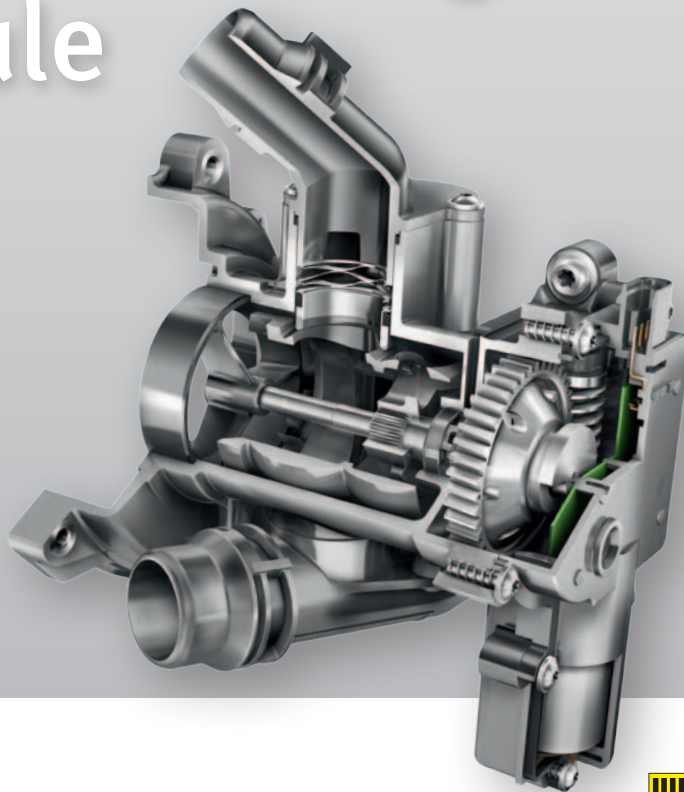
Chassis

Transmission

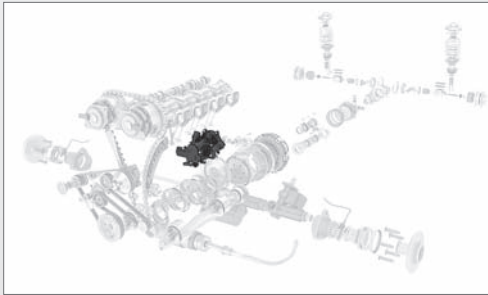
E-Mobility

SCHAEFFLER

Thermal Management Module



Thermal Management Module



Description

- Coolant routing unit for thermal operation of connected system components according to requirements
- Precise control of volume flows using an electromechanically driven rotary slide valve unit controlled by a position sensor

Functional advantages

- Fail-safe control of a number of connections
- Significant reduction in the warm-up phase due to the retention of thermal mass in the cooling system
- Precise temperature control for increasing the efficiency of the cylinder head, cylinder block, engine oil, transmission oil, interior heating etc.
- Also suitable for controlling the temperature of generators, hybrid modules and batteries

Product benefits

- Reduced pressure loss
- Integration of several switching functions into one module
- Low integration outlay due to compact design with a high integration capability
- Rapid warm-up phase of the engine results in increased availability of the start-stop system
- Improved CO₂ efficiency, lower emissions and better cabin comfort due to short warm-up phases

Comparison of engine temperature in the NEDC

