Fast Facts

Electronic pump control

The customer-specific control module is fully integrated into the electric motor and includes all components which are necessary for the control of an electronic motor. The inputs from the master control unit are transmitted via PWM, LIN or CAN to the microcontroller which calculates the speed and the necessary commutation of the electronic motor (block, trapezoidal or sine). With gate driver and power MOSFET the coils of the motor are energized. In this process the speed (with or without sensors), current, voltage and temperature are monitored and in case of an error reported back to the master control unit.

Typical applications
• Coolant pump for internal combustion engine, charge air cooling, electronic motor
• Oil pump, fuel pump, air- and vacuum pump

Special features
• High temperatures possible by using ceramic substrates (up to 160 °C)
• High performances in a small installation space by chip & wire technology
• High vibration permitted, assembly to combustion engine possible
• Fully integrated into the electric motor by high integration density
• Customer specific design

General Note This Fast Fact does not give any information on product availability. The information given is just meant to describe the product and is not to be considered as guaranteed characteristics in the legal sense. All products are subject to design changes in the interest of further technical development.

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