

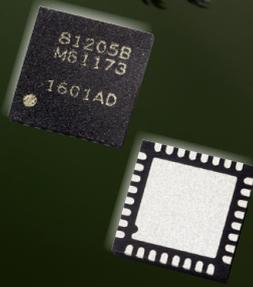
Melexis

INSPIRED ENGINEERING

MLX81205/06/07/08

SENSORLESS SINEDRIVE

BLDC MOTOR
CONTROLLER



The hummingbird's beating wings flap at extremely high frequencies, typically around 50 times per second. This allows it to fly at speeds exceeding 15 m/s, to fly backwards or to seemingly be suspended in the air in perfect balance. What better animal to reflect the motor/control driver and actuator capacities?

LOWEST NOISE AND LOWEST POWER OPERATION

Highly integrated 3-phase motor controller for 12V automotive application with TruSense technology.

MLX81205/06/07/08

The Melexis MLX81205/06/07/08 IC family is a single-IC motor driver for 12V automotive BLDC applications. The IC can be directly connected to the 12V battery, it includes a 32 KB or 64 KB Flash-Microcontroller, PowerFET gate driver and ready-to-use LIN-communication interface. The device supports silent sensorless drive for blowers and cooling fans, based on more than 10 year of TruSense know-how to drive motors.

KEY FEATURES

- ✓ AEC-Q100 grade 0 qualified up to 150 °C ambient temperature
- ✓ Dedicated solution for HVAC blowers, engine cooling fans and electric pumps
- ✓ Sensorless motor drive from 0 to maximum RPM for 10W to 1,000W BLDC motors
- ✓ Integrated LIN or PWM communication, with Flash re-programming via LIN pin
- ✓ Lowest noise and lowest power operation



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