5 to 60V Three-Phase Brushless DC Motor Pre-Driver

- rating Voltage: 5V to 60V
- ump Gate Drive Supply
- y Operation with Trickle Charge Circuit
- um Peak Source Current
- um Peak Sink Current
- 5V Logic Compatible
- r Sleep Mode
- Dead-Time
- cation Output
- ction Features
  - Current Protection
  - Circuit Protection
  - Undervoltage Lockout
  - Driver Undervoltage Lockout
  - trap Undervoltage Protection
  - mal Shutdown Protection
- in QFN-28L(4mm×4mm) Package.

DESCRIPTION

The SCT55610 is a highly integrated gate driver IC for three-phase Brushless DC(BLDC) motor control. It is capable of driving 3 high-side and 3 low-side N-channel MOSFETs with a wide input supply range from 5V to 60V.

The SCT55610 supports 100% duty operation with an internal trickle charge circuit to maintain high-side gate driver voltage. Low-power sleep mode is supported to achieve low stand-by current.

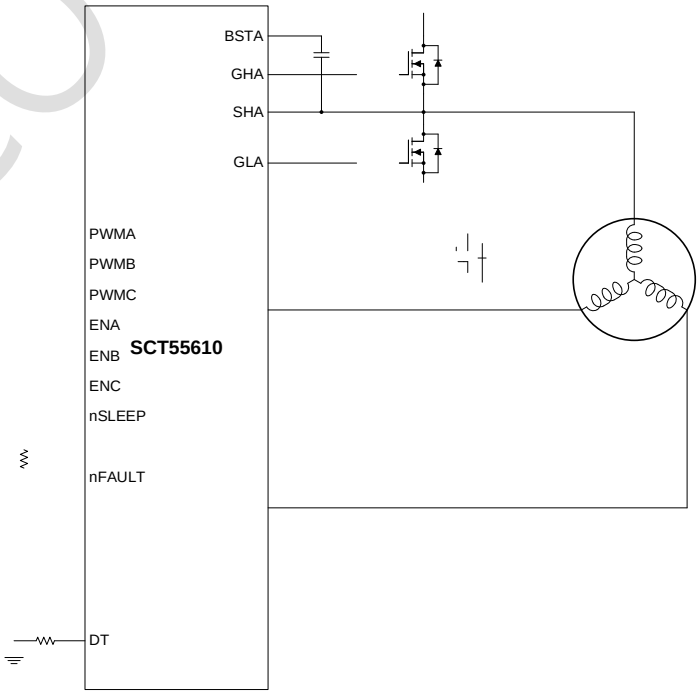
The SCT55610 provides full protection features, including over current protection, short circuit protection, input undervoltage lockout, gate driver undervoltage lockout, bootstrap undervoltage protection and thermal shutdown protection. Fault conditions are indicated through an open-drain output pin(nFAULT).

The device is available in 4mm×4mm QFN-28L package.

ONS

- ase Brushless DC Motor
- Pumps
- Drone
- Robot Vacuum

PPLICATION



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