



DRV10983 12- to 24-V, Three-Phase, Sensorless BLDC Motor Driver

1 Features

- Input Voltage Range: 8 to 28 V
- Total Driver H + L $r_{DS(on)}$: 250 mΩ
- Drive Current: 2-A Continuous Winding Current (3-A Peak)
- Sensorless Proprietary Back Electromotive Force (BEMF) Control Scheme
- Continuous Sinusoidal 180° Commutation
- No External Sense Resistor Required
- For Flexibility User May Include External Sense Resistor to Monitor Power Delivered to Motor
- Flexible User Interface Options:
 - I²C Interface: Access Registers for Command and Feedback
 - Dedicated SPEED Pin: Accepts Either Analog or PWM Input
 - Dedicated FG Pin: Provides TACH Feedback
 - Spin-Up Profile Customizable With EEPROM
 - Forward-Reverse Control With DIR Pin
- Integrated Step-Down Regulator to Efficiently Provide Voltage (5 V or 3.3 V) for Internal and External Circuits
- Supply Current 3 mA With Standby Version (DRV10983)
- Supply Current 180 μA With Sleep Version (DRV10983Z)
- Overcurrent Protection
- Lock Detection
- Voltage Surge Protection
- UVLO Protection
- Thermal Shutdown Protection
- Thermally-Enhanced 24-Pin HTSSOP

2 Applications

- Appliance Fan
- HVAC

3 Description

The DRV10983 device is a three-phase sensorless motor driver with integrated power MOSFETs, which can provide continuous drive current up to 2 A. The device is specifically designed for cost-sensitive, low-noise, low-external-component-count applications.

The DRV10983 device uses a proprietary sensorless control scheme to provide continuous sinusoidal drive, which significantly reduces the pure tone acoustics that typically occur as a result of commutation. The interface to the device is designed to be simple and flexible. The motor can be controlled directly through PWM, analog, or μ C inputs. Motor speed feedback is available through either the FG pin or μ C.

The DRV10983 device features an integrated step-down regulator to efficiently step down the supply voltage to either 5 or 3.3 V for powering both internal and external circuits. The device is available in either a sleep mode or a standby mode version to conserve power when the motor is not running. The standby mode (3-mA) version leaves the regulator running and the sleep mode (180- μ A) version shuts it off. Use the standby mode version in applications where the regulator is used to power an external microcontroller.

Ti provides DRV10983 tuning Guide for quick setup and tuning of the device for optimal performance.

Device Information⁽¹⁾

PART NUMBER	PACKAGE	BODY SIZE (NOM)
DRV10983	HTSSOP (24)	7.60 mm × 6.40 mm
DRV10983D		

(1) For all available packages, see the orderable addendum at the end of the data sheet.

Application Schematic



Drv10983 12 To 24 V Three Phase Sensorless Bldc Motor

DJ Losen



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