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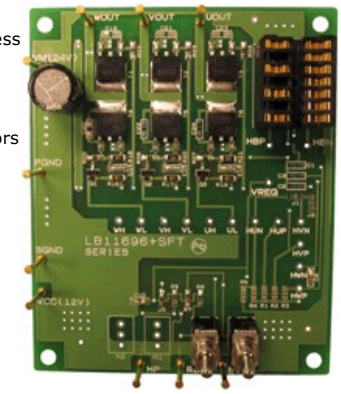
LB11696VGEVB: Direct PWM Drive Pre-Driver IC Evaluation Board

The LB11696V is a direct PWM drive pre-driver IC designed for three-phase power brushless motors. A motor driver circuit with the desired output power (voltage and current) can be implemented by adding discrete transistors in the output circuits. Furthermore, the LB11696V provides a full complement of protection circuits allowing it to easily implement high-reliability drive circuits. This device is optimal for driving all types of large-scale motors such as those used in air conditioners and on-demand water heaters.



Features and Applications

Features

- Three-phase bipolar drive
- Direct PWM drive (controlled either by control voltage or PWM variable duty pulse input)
- Built-in forward/reverse switching circuit
- Start/stop mode switching circuit (stop mode power saving function)
- Built-in input amplifier
- 5V regulator output (VERG pin)
- Current limiter circuit (Supports 0.25V (typical) reference voltage sensing based high-precision detection)
- Under voltage protection circuit (The operating voltage can be set with a zener diode)
- Automatic recovery type constraint protection circuit with protection operating state discrimination output (RD pin)
- Four types of Hall signal pulse output
- Supports thermistor based thermal protection of the output transistors

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
LB11696VGEVB	Active	Pb-free	Direct PWM Drive Pre-Driver IC Evaluation Board	LB11696V-TLM-E	›› Contact Local Sales Office ›› Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	LB11696VGEVB Bill of Materials ROHS Compliant	LB11696VGEVB_BOM_ROHS.PDF - 106 KB	0
Eval Board: Gerber	LB11696VGEVB Gerber Layout Files (Zip Format)	LB11696VGEVB_GERBER.ZIP - 108.0 KB	0
Eval Board: Schematic	LB11696VGEVB Schematic	LB11696VGEVB_SCHEMATIC.PDF - 65 KB	0
Eval Board: Test Procedure	LB11696VGEVB Test Procedure	LB11696VGEVB_TEST_PROCEDURE.PDF - 224 KB	1

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