Product Overview

FSAM30SH60A: Intelligent Power Module, 600V, 30A

For complete documentation, see the data sheet.

FSAM30SH60A is a Motion SPM® 2 series that ON Semiconductor has developed to provide a very compact and high performance inverter solution for AC motor drives in low-power applications such as air conditioners. It combines optimized circuit protections and drive matched to low-loss IGBTs. Effective over-current protection is realized through advanced current sensing IGBTs. The system reliability is further enhanced by the built-in thermistor and integrated under-voltage lock-out protection. In addition the incorporated HVIC facilitates the use of single-supply voltage without any negative bias. Inverter leg current sensing can be implemented because of three separate negative dc terminals.

Features
- UL Certified No. E209204
- 600V-30A 3-phase IGBT inverter bridge including control ICs for gate driving and protection
- Three separate negative dc-link terminals for inverter current sensing applications
- Single-grounded power supply thanks to built-in HVIC
- Typical switching frequency of 15kHz
- Built-in thermistor for temperature monitoring
- Inverter power rating of 2.4kW / 100~253 VAC
- Isolation rating of 2500Vrms/min.
- Low thermal resistance by using ceramic substrate
- Adjustable current protection level by changing the value of series resistor connected to the emitters of sense-IGBTs

For more features, see the data sheet

Applications
- Motion Control - Home Appliance/Industrial Motor

For more information please contact your local sales support at www.onsemi.com.

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