Product Overview

FSBB30CH60C: Intelligent Power Module, 600V, 30A

For complete documentation, see the data sheet.

FSBB30CH60C is an advanced Motion SPM® 3 series that ON Semiconductor has newly 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 drives matched to low-loss IGBTs. The system reliability is further enhanced by the integrated under-voltage lock-out and over-current protection. The high speed built-in HVIC provides optocoupler-less single-supply IGBT gate driving capability that further reduces the overall size of the inverter system. Each phase leg current of the inverter can be monitored thanks to three separate negative dc terminals.

Features
- Very low thermal resistance by using AlN DBC
- Easy PCB layout thanks to built-in bootstrap diodes
- 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 for built-in HVICs
- Isolation rating of 2500Vrms/min.

Applications
- Motion Control - Home Appliance/Industrial Motor

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

Created on: 6/6/2020