

FNB41560

Intelligent Power Module, 600 V, 15A

Product Overview

For complete documentation, see the data sheet.

FNB41560 is a Motion SPM® 45 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 washing machines and industrial fans. It combines low-loss short-circuit rated IGBTs and optimized gate drivers in a fully isolated package to deliver a simple and robust design. The system reliability is further enhanced by the built-in NTC for temperature monitoring, integrated under-voltage lock-out function for both high and low side, and an over-current protection input. Three separate open-emitter pins for low side IGBTs make three leg current sensing possible. Built-in bootstrap diodes and dedicated VS pins make PCB layout easy.

Features

- 600V, 15A 3-phase IGBT inverter including control ICs for gate drive and protections
- Easy PCB layout thanks to the built-in bootstrap diodes and the dedicated Vs pins
- Three separate open-emitter pins from low side IGBTs for three leg current sensing
- Single-grounded power supply with bootstrap operations
- Built-in thermistor for temperature monitoring
- Isolation rating of 2000Vrms/min.

Applications

- Motion Control - Home Appliance/Industrial Motor