

NFAM2512L7B

Intelligent Power Module, SPM31, 1200V, 25A

Product Overview

For complete documentation, see the data sheet.

NFAM2512L7B is an advanced IPM module providing a fully-featured, high-performance inverter output stage for AC Induction, BLDC and PMSM motors.

These modules integrate optimized gate drive of the builtin IGBTs to minimize EMI and losses, while also providing multiple onmodule protection features including under-voltage lockouts, over-current shutdown, thermal monitoring of drive IC, and fault reporting.

The builtin, high-speed HVIC requires only a single supply voltage and translates the incoming logic-level gate inputs to the high-voltage, high-current drive signals required to properly drive the module's internal IGBTs.

Separate negative IGBT terminals are available for each phase to support the widest variety of control algorithms.

Features

- 1200V 25A 3-Phase FS7 IGBT Inverter, Including Control ICs for Gate Drive and Protections
- Low-Loss, Short-Circuit Rated IGBTs (FS7)
- Built-in Under-voltage Protection (UVP)
- Built-In Bootstrap Diodes/Resistors
- Single-Grounded Power Supply
- UL Certification: E209204
- This is a PbFree Device

Applications

- HVAC, Heat Pumps, Commercial Air conditioner
- Variable Frequency Drive(VFD)
- Industrial Pumps
- Servo, Robotics

End Products

- Factory Automation
- Commercial Air conditioner
- HVAC
- Heat Pumps
- Servo & VFD motors and Robotics

Part Electrical Specifications

Product	Status	Compliance	Family	Type	Substrate	Input Logic	Rated Voltage Min (V)	I _O @ 25°C Min (A)	V _{CE(sat)} @ 25°C Typ (V)	R _{DS(on)} (Ω)	Emitter Configuration	Shielded Pin	Mounting Type	Packaging Type	Case Outline	MSL Type	ML Temp (°C)	Container Type	Container Qty.
NFAM2512L7B	Active	Pb	SP M3 1	3-Phase Inverter IGBT	DB C	Active High	1200	25	1.5	~N A~	3 Emitter Pins	Yes	DIP	DIP 39, 54, 5x 31.0 EP-2	MO DG X.P DF	NA	0	TUBE	90