

NFAM3512L7B

Intelligent Power Module, SPM31, 1200V, 35A

Product Overview

For complete documentation, see the data sheet.

These modules integrate optimized gate drive of the built-in IGBTs to minimize EMI and losses, while also providing multiple on-module protection features including under-voltage lockouts, over-current shutdown, thermal monitoring of drive IC, and fault reporting. The built-in, 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 35A 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	Shutdown Pin	Mounting Type	Packaging Type	Case Outline	MSL Type	ML Temp (°C)	Container Type	Container Qty.
NFAM3512L7B	Active	Pb	SPM31	3-Phase Inverter IGBT	DBC	Active High	1200	35	1.6	~N A~	3 Emitter Pins	Yes	DIP	DIP 39, 54.5x31.0 EP-2	MO DG X.P DF	NA	0	TUBE	90