

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 conditionner
- 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	Fa mil y	Ty pe	Su bst rat e	Int put Lo gic	Rat ed Vol tag e Min (V)	I _o @ 25 °C Min (A)	V _{CE} (sat) @ 25 °C Ty p (V)	R _{DS} (on) (Ω)	Em itte r Con figu ration	Sh utd own Pin	Mo unt ing Ty pe	Pa cka ge Ty pe	Ca se O utlin e	MS L Ty pe	MS L Te mp (°C)	Co nta ine r Ty pe	Co nta ine r Qt y.
NFAM2512L7B	Active		SP M3 1	3- Ph ase Inv ert er IGB T	DB C	Act ive Hig h	12 00	25	1.5	~N A~	3 Em itte r Pin s	Ye s	DIP	DIP 39, 54. 5x 31. 0 EP -2	MO DG X.P DF	NA	0	TU BE	90