

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 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	Inp ut Lo gic	Rat ed Vol tag e Min (V)	I _o @ 25 °C Min (A)	V _{CE} (sat) @ 25 °C Typ (V)	R _{DS} (on) (Ω)	Em itte r Co nfi gur ati on	Sh utd ow n 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.
NFAM3512L7B	Active		SP M3 1	3- Ph as e Inv ert er IGB T	DB C	Act ive Hig h	12 00	35	1.6	~N A~	3 Em itte r Pin s	Yes	DIP	DIP 39, 54. 5x 31. 0 EP -2	MO DG X.P DF	NA	0	TU BE	90