

High Voltage Three-Phase Motor Driver Family Targeted at Variable Speed Motor Controllers



Allegro MicroSystems, Inc. announces a high voltage three-phase motor driver family in a small package that minimizes board space and expands the use of inverter technology (variable speed control) in low power motor drivers.

Allegro's new SX68000M series is targeted at the white good appliance and industrial markets. The SX68000M series of IPM devices has an 85 to 230 VAC input voltage, and a 1.5 to 2.5 A output current. These ICs can withstand voltages of up to 500 V (MOSFET breakdown voltage), providing a robust IPM solution for optimally controlling motor inverters used to drive small-size motors in residential and commercial appliances.

The SX68000M series employs a new, small-footprint proprietary SOP package. The IC itself consists of the necessary power elements (six MOSFETs) and pre-drive ICs (two), needed to configure the main circuit of an inverter. This enables the main circuit of the inverter to be configured with fewer external components.

All devices have a 12-week ARO lead-time to market.

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