Compact IPM for Motor Control

Innovation
- Complete system solution for Industrial Motor control up to 1 kW
- Fully-integrated inverter power stage consisting of a high-voltage driver, six IGBT's and a thermistor and protection features providing high power density and thermal management capabilities

Value Advantage
- Multi function integrated for compact design and cost optimization
- Compatible with ACIM, PMSM and BLDC motor technologies
- Simplifies design with unmatched power density and thermal management
  - Best in class power density and thermal management.
  - High integrated, robust and rugged technology.
  - Lower component count and cost efficient solution.

Current Proposition
- EMI filter, rectification, Active PFC, inverter, sensing and protections
- Arduino DUE compatible pin header for external control
- **FFSPF1065A**: Compact IPM module Interleaved PFC controller PFC power stage SiC diodes
- **FCPF125N65S3**: PFC power stage superFET III MOSFETs (650 V, 24 A, 125 mOhms)
- **NCP1063**: DCDC regulator
- **NCS2003**: Current sense amplifier
- **NCS2250**: OCP and SC protection circuit with NCS2250