



Product Overview

STK541UC60C-E: Inverter IPM for 3-phase Motor Drive

For complete documentation, see the data sheet

Product Description

This “Inverter IPM” is highly integrated device containing all High Voltage (HV) control from HV-DC to 3-phase outputs in a single SIP module (Single-In line Package). Output stage uses IGBT/FRD technology and implements Under Voltage Protection (UVP) and Over Current Protection (OCP) with a Fault Detection output flag. Internal Boost diodes are provided for high side gate boost drive.

FeaturesBenefits

- Over-current Protection Circuit
  - Under-voltage lockout for all channels
  - Upper/lower ON prevention circuit
  - Direct input of CMOS level control signals without an insulating is possible
  - UL Recognized (File Number : E339285)
- Fast speed protection is possible(Self protection)
  - All IGBT Gate shutdown at abnormal for safety
  - System malfunction can reduce by noise
  - High precision monitor is possible

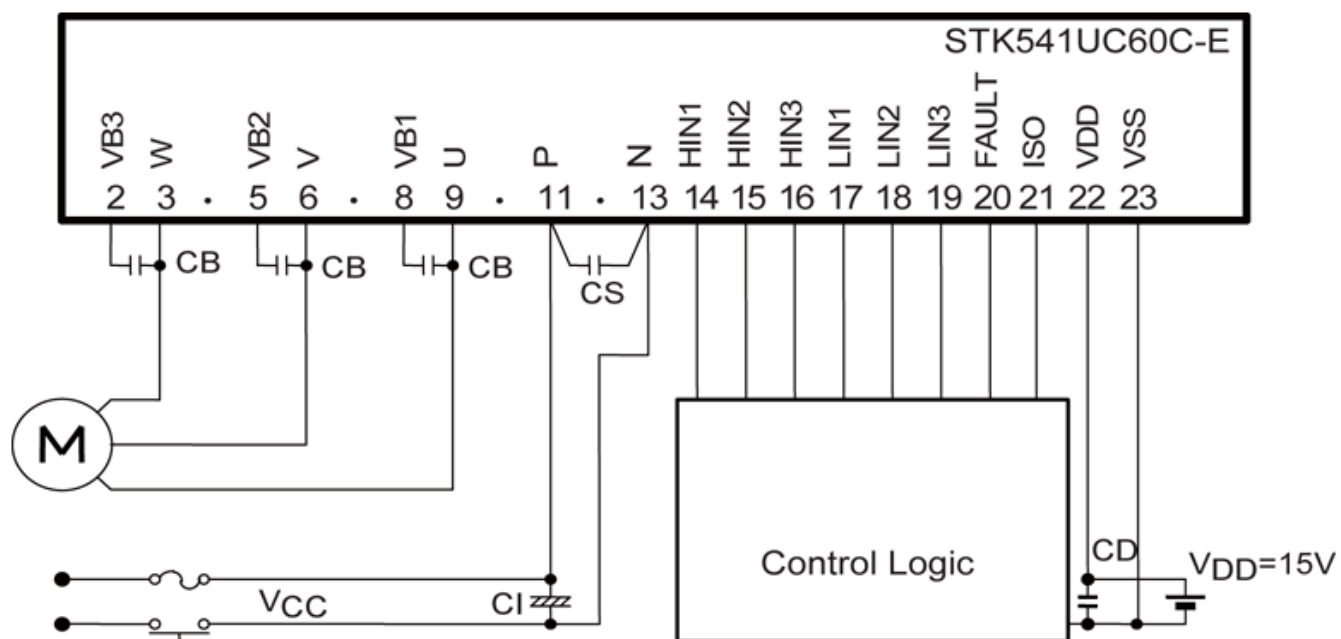
ApplicationsEnd Products

- Motor Driver modules
- Motor Control System
  - Industrial /General Control Syst
  - HVAC
  - Clothes Washer /Dryer
  - Dish Washer

Part Electrical Specifications

Product	Compliance	Status	Type	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Step Reso lution	Cont rol Type	Feed back Method	Curr ent Sense	Reg ulator Output	Fault Detection	Flyb ack Protection	R <sub>DS(on)</sub> Typ ()	Pack age Type
STK541UC60C-E	Pb-free	Active	Inver ter		600		20	10	20		PW M	Non e	Fully Integrated	No	Over-Cur rent UV LO			SIP-23

## Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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