



Product Overview

STK5Q4U362J-E: Inverter IPM for 3-phase Motor Drive

For complete documentation, see the data sheet

Product Description

This "Inverter Power IPM" is highly integrated device containing all High Voltage (HV) control from HV-IC to 3-phase outputs in a single small DIP module. Output stage uses IGBT/FRD technology and implements Under Voltage Protection (UVP). Internal bootstrap circuit is provided for high side gate drive.

Features

- Over-current Protection Circuit
- Under-voltage lockout for all channels
- Built-in cross conduction prevention
- Thermistor for case temperature monitor
- Direct input of CMOS level control signals without an insulating is possible

Benefits

- Having separate emitters and VITRIP terminal for protection
- All IGBT Gate shutdown at abnormal for safety
- System malfunction can reduce by noise
- High precision monitor is possible
- No need photo-coupler design

Applications

- 3-phase Motor

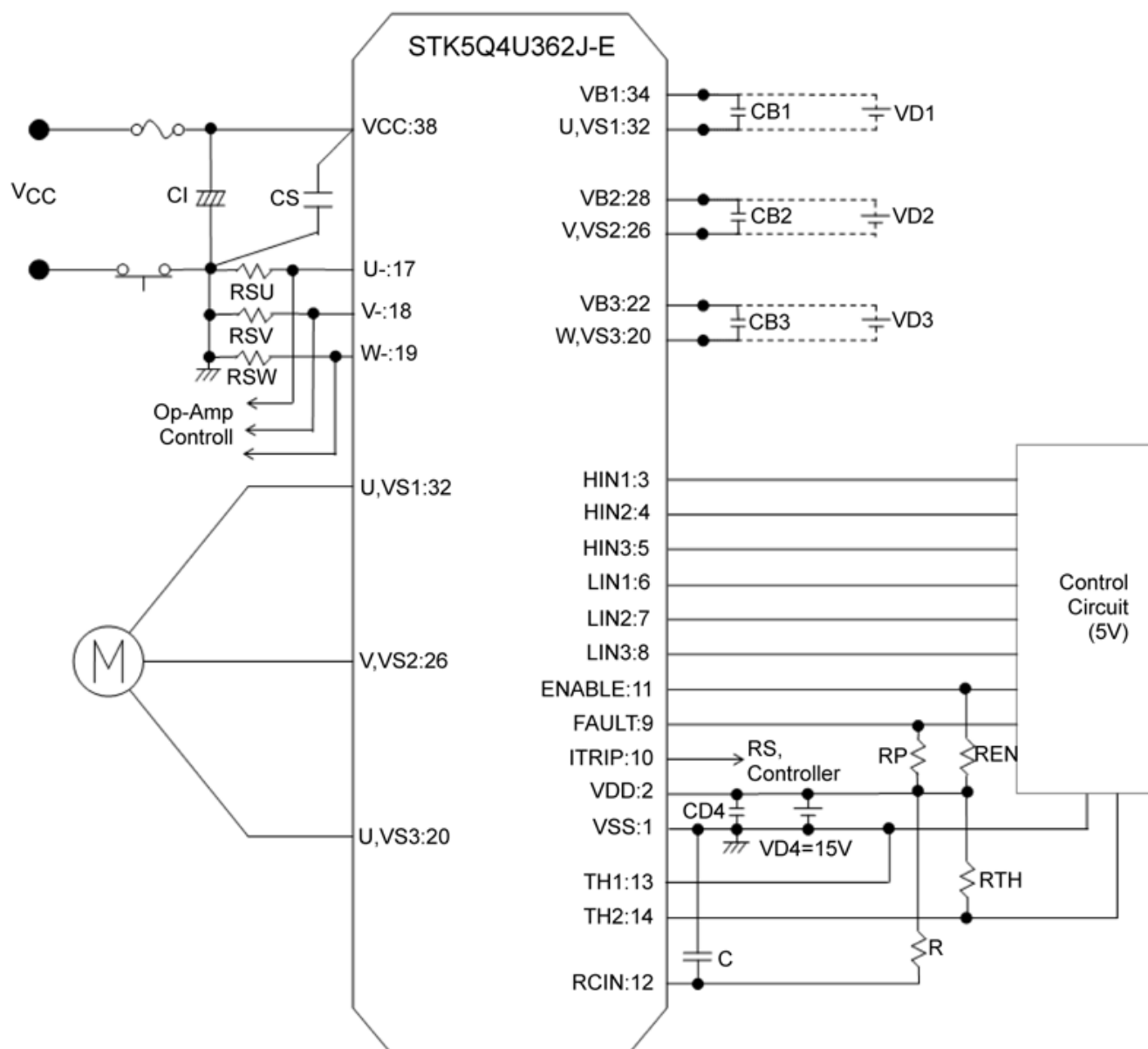
End Products

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

Part Electrical Specifications

Product	Compliance	Status	Type	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Step Reso- lution	Cont rol Type	Feed back Meth- od	Curr- ent Sense	Reg- ulator Output	Fault Dete- ction	Fly- back Protec- tion	R _{DS(on)} Typ (Ω)	Pack- age Type
STK5Q4U362J-E	Pb-free	Active	Inver- ter	-	600	-	20	10	20		Non- e	Non- e	Exter- nal Resi- stor	No	Over- Cur- rent Ther- ma- l UV LO	Exter- nal		MOD- ULE SPC M24 29.6 x18.2 DIP S3

Application Diagram



For more information please contact your local sales support at www.onsemi.com

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