



Product Overview

STK544UC62K-E: Inverter IPM for 3-Phase Motor Driver

For complete documentation, see the data sheet

Product Description

This Inverter IPM (Intelligent Power Module) includes the output stage of a 3-phase inverter, pre-drive circuits, bootstrap circuits, and protection circuits in one package.

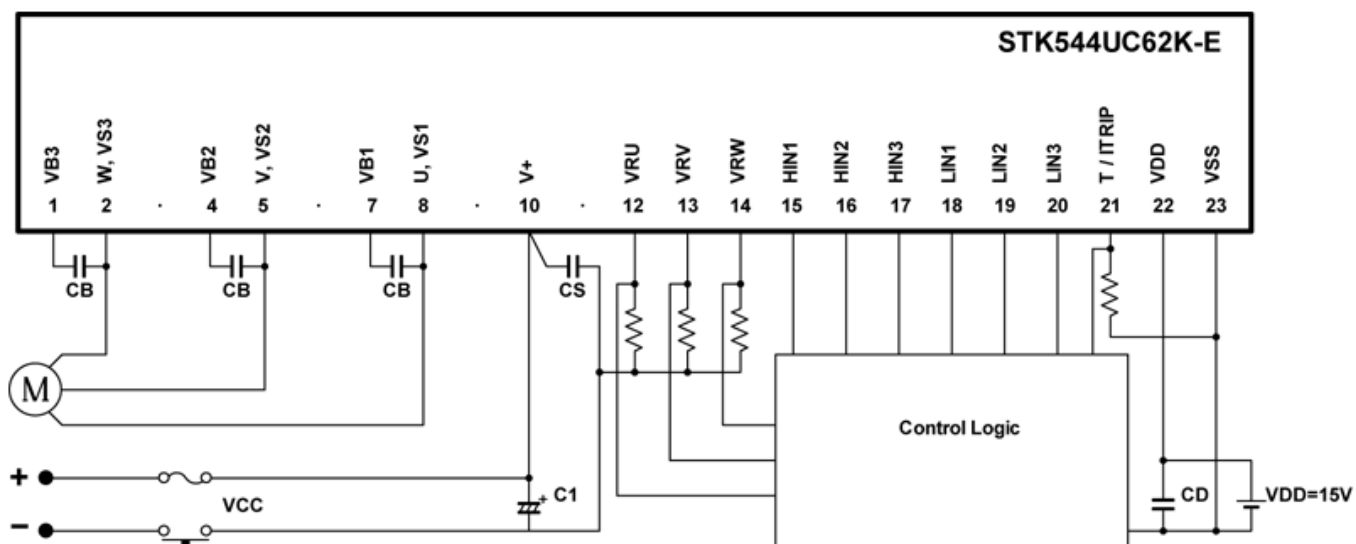
Features	Benefits
<ul style="list-style-type: none"><li>Over-current Protection Circuit</li><li>Under-voltage lockout for all channels</li><li>Upper/lower ON prevention circuit</li><li>Thermistor for temperature monitor</li><li>Direct input of CMOS level control signals without an insulating</li></ul>	<ul style="list-style-type: none"><li>Having separate emitters and VTRIP terminal for protection</li><li>All IGBT Gate shutdown at abnormal for safety</li><li>System malfunction can reduce by noise</li><li>High precision monitor is possible</li><li>No need photo-coupler design</li></ul>

Applications	End Products
<ul style="list-style-type: none"><li>Motor Driver modules</li></ul>	<ul style="list-style-type: none"><li>Motor Control System</li><li>Industrial /General Control System HVAC</li><li>Clothes Washer /Dryer</li><li>Dish Washer</li><li>Refrigerator</li></ul>

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 Meth od	Curr ent Sens e	Reg ulato r Outp ut	Fault Dete ction	Flyb ack Prot ectio n	R <sub>DS(on)</sub> Typ ()	Pack age Type
STK544UC62K-E	Pb-free	Active	Inver ter	-	600	-	20	10	20		PW M	Non e	Exter nal Resi stor	No	Over-Cur rent The rma l UV LO	Exter nal		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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