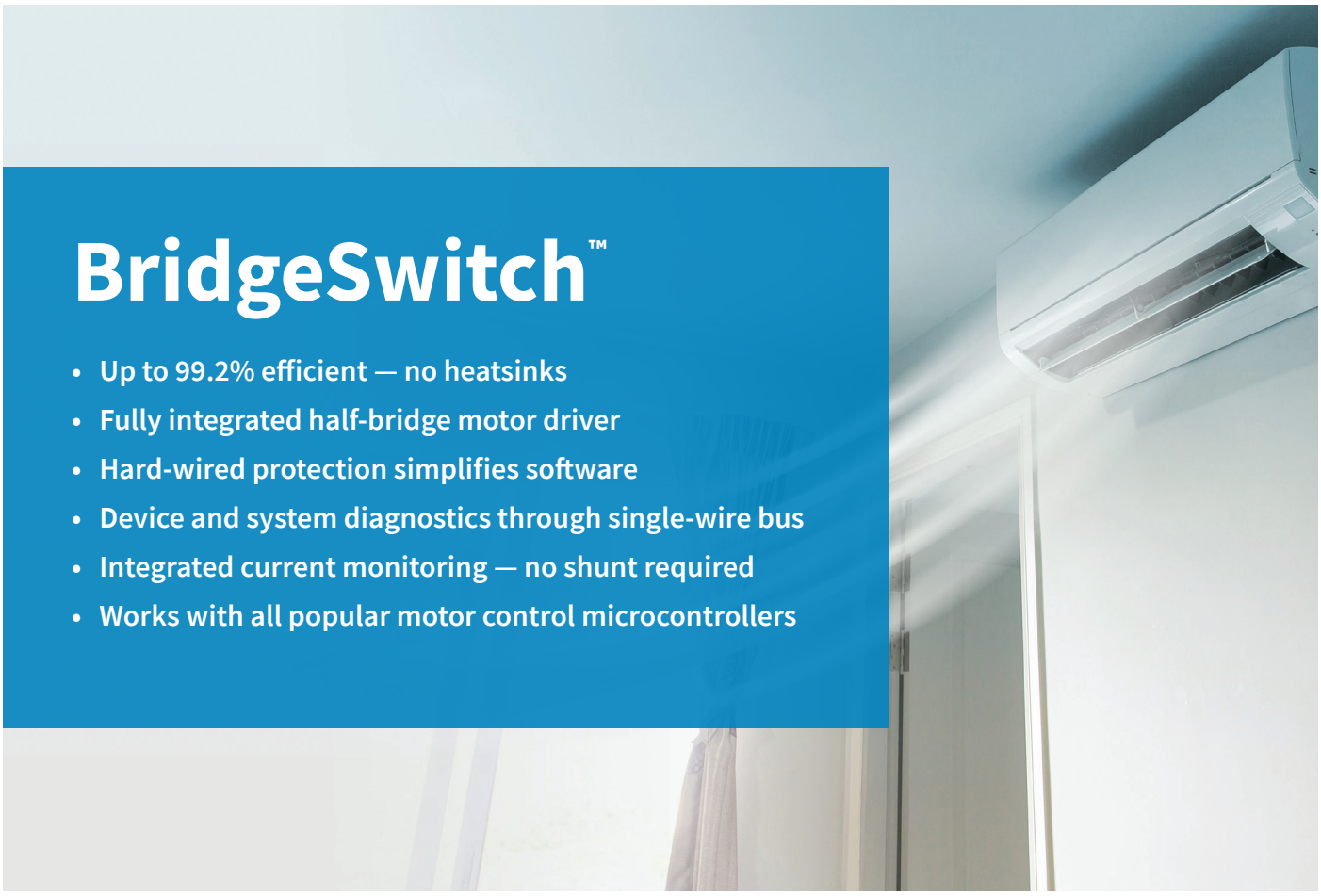
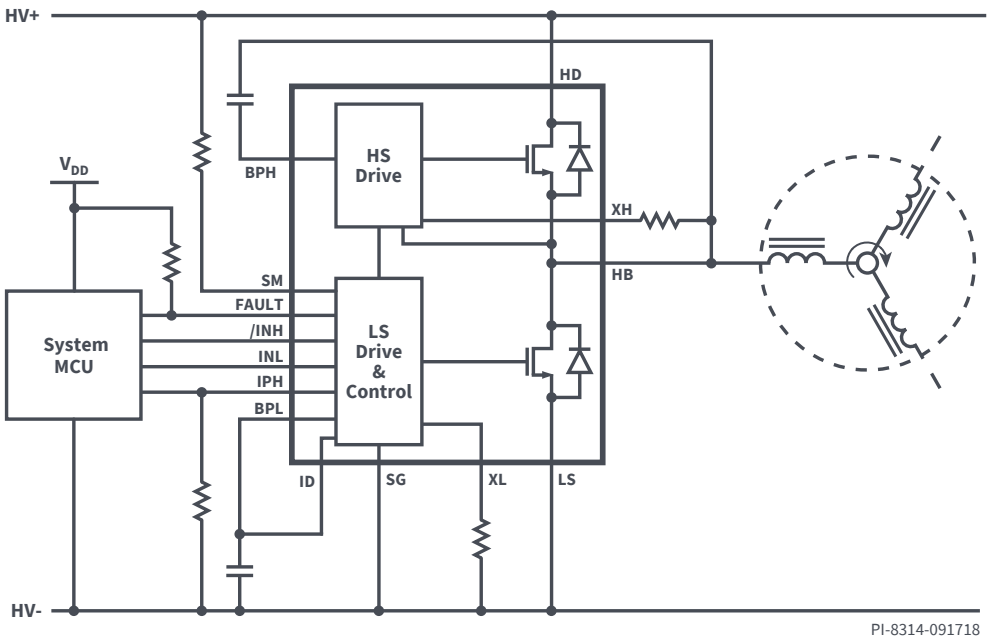
power integrations™



BridgeSwitch™

- Up to 99.2% efficient — no heatsinks
- Fully integrated half-bridge motor driver
- Hard-wired protection simplifies software
- Device and system diagnostics through single-wire bus
- Integrated current monitoring — no shunt required
- Works with all popular motor control microcontrollers

High-Voltage, Self-Powered, Half-Bridge Motor Driver



PI-8314-091718

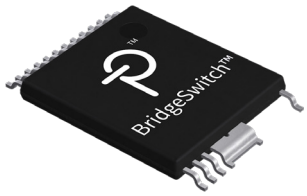
Applications

- Single and multi-phase high-voltage PM and BLDC motor drives
- Industrial and factory automation equipment
- Fans, pumps and compressor motor drives in appliances and HVAC (air conditioning, dishwashers, refrigerators, range hoods)

Output Power

Part Number	DC Output Current (A)	Continuous RMS Current (A)
BRD1160C BRD1260C	1.0	0.22
BRD1161C BRD1261C	1.7	0.50
BRD1163C BRD1263C	3.0	0.75
BRD1165C BRD1265C	5.5	1.00
BRD1167C BRD1267C	11.5	1.33

BRD126xC: Includes positive phase current output



InSOP™-24C Package

Design Support

Data Sheet	BridgeSwitch data sheet (www.power.com/bridgeswitch-data-sheet)
Application Note	BridgeSwitch design tips, techniques and troubleshooting guide (AN-83) (www.power.com/an-83)
White Paper	Simplified product safety certification through hardware based motor fault protection with BridgeSwitch (www.power.com/W006)
Reference Designs	Inverter board designs from 30 W to 400 W with shunt current feedback (RDK-851, RDK-852, RDK-853, DER-870) or shuntless (DER-964) (www.power.com/bridgeswitch)
Design Tool	Motor-Expert™ suite software (www.power.com/motorxpert-suite) - Motor-Expert: Graphical user interface for motor drive design - 3-phase sensorless FOC example with IPH current reconstruction, no shunts - 1-phase sensorless control example with IPH current feedback, no shunts/Hall sensors