

GET IT STARTED

with the **TorQstart** series of Hard Starts.

From the company that knows motors and compressors, Packard now has an expanded offering of Hard Starts.



TORQSTART[®] EM

TWO WIRE ELECTRO-MECHANICAL RELAY AND CAPACITOR

TorQstart[®] EM eliminates the concern for compressor wear with its mechanical potential relay. It also features two-wire quick connect terminals and a bleed resistor for increased safety.



TORQSTART[®] ST

STANDARD RELAY AND HARD START CAPACITOR

TorQstart[®] ST is a standard PTC relay and hard start that increases compressor starting torque at a great value. It features "piggy-back" terminals for easy installation on run capacitors.



TORQSTART[®] AP

ALL PURPOSE HARD START PACK

TorQstart[®] AP is a combination relay, overload and capacitor that uses Positive Temperature Coefficient (PTC) technology. It is also pre-wired for easy installation and great for domestic refrigeration applications.

a solution from


Packard
Supplying HVACR solutions with your needs in mind.
www.packardonline.com

Two Wire Electro-mechanical Voltage Sensing Relay



Features

- Potential relay and start capacitor for compressor hard start applications
- More reliable than PTC type hard starts
- Two wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resistor to safely discharge the capacitor



Item ID	Capacitor Size (µF)	HP Rating	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
TorQstart						
TQS1	189-227	1 1/2 thru. 3 1/2	Recip and Scroll	239-268	502	TO-5 SK3W3
TQS2	270-324	3 1/2 thru. 6	Recip and Scroll	280-315	502	KS1 SK3W6S

Hard Start Kits And All In One Hard Start Packs



Standard Relay and Hard Start Capacitor



All Purpose Hard Start Pack



Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

Features

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- All models adapt to 115 volt compressors with external overload protector
- PTC for capillary or fixed restrictor systems

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces	Item ID	Compressor Sizes	Volts	Replaces
TorQstart					TorQstart			
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5	TQS21	1/2 HP	115	600-210 RCO210
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6	TQS41	1/4 and 1/3 HP	115	600-410 RCO410
TQS8	115-277	1/2 to 10	600%	32708 SPP7S	TQS81	1/12 thru 1/5 HP	115	600-810 RCO810

