Smart-Boost[™] Rotary Converters



Single Phase Input Voltage: 208 - 245 Volts 3 Phase Rated Output: 208 - 245 Volts Minimum Single Phase Circuit: 100 Amps Best Performance Single Motor Start: 20HP Recommended 3 Phase Sizing: 46 Amps Voltage Balance: Based on input +/-5-10%

SB-40

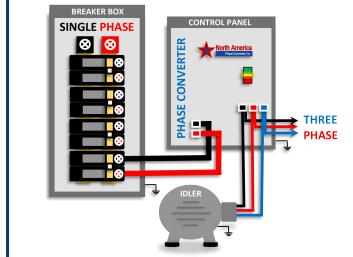
Professional. Powerful. Affordable. Smart-Boost[™] offers more than you would expect from a phase converter. Unparalleled starting power for the toughest starting applications.

Control Panel Features

- 600% Motor Starting Boost Current
- Built-In Motor Starter with Start/Stop Push Button Switch
- Digitally Controlled with Solid State Switches
- Complete Phase Power Failure Protection
- Power "ON" Indicator Light
- Voltage Differential Technology
- 10 Year Parts / Lifetime Labor Warranty
- Made In the USA



Typical Wiring Diagram





North America Phase Converter Co. 2728 South 163rd Street New Berlin, WI 53151 877-545-2926 NorthAmericaPhaseConverters.com



Idler Generator Features

- Custom Made Rotary Phase Converter Generators
- Low Impedance/High Efficiency Design
- Custom Copper Windings and Rotor
- Made by ABB / Baldor Electric USA
- Available in ODP and TEFC
- Shielded Windings
- Made In the USA



Specifications

Model	
Brand	NAPCES
Line	Smart-Boost™
Model #	SB-40
General Specifications	
Horse Power (HP)	40
Kilo-watt (kW)	29.8
Frequency (Hz)	60
Generator Type	ODP
Enclosure Type	NEMA 1 (Indoor)
Generator Frame	286
Single Phase Electrical Specifications	
Voltage Input	208-245
Minimum Fuse Size	100
Minimum Circuit Breaker Size	100
Maximum Fuse Size	200
Maximum Circuit Breaker Size	200
Minimum Wire Input	4/0 AWG
Idle Amperage	12.24
Three Phase Electrical Specifications	
Voltage Output	208-245 based on input voltage
Output Amperage	104
Voltage Balance	5-10%
Minimum Wire to Generator	1 AWG
Minimum Wire to Load	1 AWG or based on load
Dimensions & Weights	
Enclosure (H X W X D)	28" X 18" X 24"
Idler (Approx.) Length X Diameter	21.5" X 13.25″
Approx. Total Shipping Weight	371 lbs.

The SB-40 Smart-Boost [™] Phase Converter is best sized for:	
Easy / Light Motor Loads - up to 30 HP	
Examples of Easy Loads: Table Saw, Milling Machine ,Drill Press	
Medium Motor Loads - up to 25 HP	
Examples of Medium Loads: Belt Sander, Grinder, Mixer	
Hard Motor Loads - up to 20 HP	
Examples of Hard Loads: Gearhead Lathe, Dust Collector , Fan	
Very Hard Motor Load - up to 20 HP	
Examples of Very Hard Motor Loads: Air Compressor, Sub. Pump	
CNC, Resistive and Inductive Loads - 46 Amps @240 Volts	

Sizing Notes

For light/easy motor loads: Size rotary phase converter 1.25 times larger then the motor load

For medium motor loads: Size rotary phase converter 1.5 times larger then the motor load

For heavy/hard motor loads: Size rotary phase converter double the size of motor load

For very hard motor loads: Size rotary phase converter double the size of motor load

For CNC, resistive and inductive loads: Recommend Pro-Line or Smart-Phase™



Wired and Wireless Remote Switches



Twist-Lock Outlets and Plugs



Rubber Isolation Mounting Feet



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