**Quick Specs**

- **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%

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**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

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### Typical Wiring Diagram

*Diagram showing wiring connections between breaker box, control panel, phase converter, and idler.*

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### 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

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North America Phase Converter Co.
2728 South 163rd Street
New Berlin, WI 53151
877-545-2926
NorthAmericaPhaseConverters.com
**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 than the motor load
- For medium motor loads: Size rotary phase converter 1.5 times larger than 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™

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**Available Accessories**

- Wired and Wireless Remote Switches
- Twist-Lock Outlets and Plugs
- Rubber Isolation Mounting Feet

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