Quick Specs
- **Single Phase Input Voltage:** 208 - 245 Volts
- **3 Phase Rated Output:** 208 - 245 Volts
- **Minimum Single Phase Circuit:** 40 Amps
- **Best Performance Single Motor Start:** 7.5HP
- **Recommended 3 Phase Sizing:** 18 Amps
- **Voltage Balance:** Based on input +/-5-10%

Professional. Powerful. Affordable. Smart-Boost™ offers much 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

Idler Generator Features
- Custom Designed Rotary 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

Typical Wiring Diagram
**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Brand</th>
<th>NAPCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td></td>
<td>Smart-Boost™</td>
</tr>
<tr>
<td>Model #</td>
<td>SB-15</td>
<td></td>
</tr>
</tbody>
</table>

**General Specifications**

- Horse Power (HP): 15
- Kilo-watt (kW): 11.4
- Frequency (Hz): 60
- Generator Type: ODP
- Enclosure Type: NEMA 1 (Indoor)
- Generator Frame: 254

**Single Phase Electrical Specifications**

- Voltage Input: 208-245
- Minimum Fuse Size: 40
- Minimum Circuit Breaker Size: 40
- Maximum Fuse Size: 80
- Maximum Circuit Breaker Size: 80
- Minimum Wire Input: 8 AWG
- Idle Amperage: 4.24

**Three Phase Electrical Specifications**

- Voltage Output: 208-245 based on input voltage
- Output Amperage: 38
- Voltage Balance: 10%
- Minimum Wire to Generator: 8 AWG
- Minimum Wire to Load: 8 AWG or based on load

**Dimensions & Weights**

- Enclosure (H X W X D): 17" X 12" X 8"
- Idler (Approx.) Length X Diameter: 14.5" X 9.5"
- Approx. Total Shipping Weight: 186 lbs.

**The SB-15 Smart-Boost™ Phase Converter is best sized for:**

- **Easy / Light Motor Loads** - up to 10HP
  - Examples of Easy Loads: Table Saw, Milling Machine, Drill Press
- **Medium Motor Loads** - up to 10HP
  - Examples of Medium Loads: Belt Sander, Grinder, Mixer
- **Hard Motor Loads** - up to 7.5HP
  - Examples of Hard Loads: Gearhead Lathe, Dust Collector, Fan
- **Very Hard Motor Load** - up to 7.5HP
  - Examples of Very Hard Motor Loads: Air Compressor, Sub. Pump
- **CNC, Resistive and Inductive Loads** - up to 18 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**: Consider Smart-Phase™ Converters.