Quick Specs

Single Phase Input Voltage: 208 - 245 Volts
3 Phase Rated Output: 208 - 245 Volts
Minimum Single Phase Circuit: 20 Amps
Best Performance Single Motor Start: 2.5HP
Recommended 3 Phase Sizing: 7 Amps
Voltage Balance: Based on input +/-5-10%

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
• Three 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>NAPCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Smart-Boost™</td>
</tr>
<tr>
<td>Line</td>
<td>SB-5</td>
</tr>
</tbody>
</table>

#### General Specifications
- **Horse Power (HP)**: 5
- **Kilo-watt (kW)**: 3.3
- **Frequency (Hz)**: 60
- **Generator Type**: ODP
- **Enclosure Type**: NEMA 1 (Indoor)
- **Generator Frame**: 182

#### Single Phase Electrical Specifications
- **Voltage Input**: 208-245
- **Minimum Fuse Size**: 20
- **Minimum Circuit Breaker Size**: 20
- **Maximum Fuse Size**: 30
- **Maximum Circuit Breaker Size**: 30
- **Minimum Wire Input**: 10 AWG
- **Idle Amperage**: 1.72

#### Three Phase Electrical Specifications
- **Voltage Output**: 208-245 based on input voltage
- **Output Amperage**: 14
- **Voltage Balance**: 5-10%
- **Minimum Wire to Generator**: 12 AWG
- **Minimum Wire to Load**: 12 AWG or based on load

#### Dimensions & Weights
- **Enclosure (H X W X D)**: 18" X 12" X 8"
- **Idler (Approx.) Length X Diameter**: 10" X 6.5"
- **Approx. Total Shipping Weight**: 79 lbs.

#### The SB-5 Smart-Boost™ Phase Converter is best sized for:

<table>
<thead>
<tr>
<th>Category</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy / Light Motor Loads</td>
<td>1.25 times larger than the motor load</td>
</tr>
<tr>
<td>Medium Motor Loads</td>
<td>1.5 times larger than the motor load</td>
</tr>
<tr>
<td>Hard Motor Loads</td>
<td>Double the size of the motor load</td>
</tr>
<tr>
<td>Very Hard Motor Load</td>
<td>Double the size of the motor load</td>
</tr>
<tr>
<td>CNC, Resistive and Inductive Loads</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 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™ Rotary Phase Converters

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

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**Built-In Motor Stater with Start / Stop Switch**

**Solid State Controller with Zero Degree Power Switches (Thyristors)**

**Complete 3 Phase Power Guard Protection**