Smart-Boost™ Rotary Converters

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: 3HP
- Recommended 3 Phase Sizing: 10 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
- 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 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

Typical Wiring Diagram

North America Phase Converter Co.
2728 South 163rd Street
New Berlin, WI 53151
877-545-2926
NorthAmericaPhaseConverters.com
### Specifications SB-7

<table>
<thead>
<tr>
<th>Model</th>
<th>Brand</th>
<th>NAPCES</th>
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<tbody>
<tr>
<td>Line</td>
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<td>Smart-Boost™</td>
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<tr>
<td>Model #</td>
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<td>SB-7.5</td>
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#### General Specifications

| Horse Power (HP) | 7.5 |
| Kilo-watt (kW)  | 5.6 |
| Frequency (Hz)   | 60 |
| Generator Type   | ODP |
| Enclosure Type   | NEMA 1 (Indoor) |
| Generator Frame  | 184 |

#### Single Phase Electrical Specifications

| Voltage Input       | 208-245 |
| Minimum Fuse Size   | 20      |
| Minimum Circuit Breaker Size | 20 |
| Maximum Fuse Size   | 40      |
| Maximum Circuit Breaker Size | 40 |
| Minimum Wire Input  | 8 AWG   |
| Idle Amperage       | 2.74    |

#### Three Phase Electrical Specifications

| Output Amperage     | 19      |
| Voltage Balance     | 5-10%   |
| Minimum Wire to Generator | 10 AWG |
| Minimum Wire to Load| 10 AWG or based on load |

#### Dimensions & Weights

| Enclosure (H X W X D) | 18” X 12” X 8” |
| Idler (Approx.) Length X Diameter | 11” X 8” |
| Approx. Total Shipping Weight | 109 lbs. |

### The SB-7 Smart-Boost™ Phase Converter is best sized for:

- **Easy / Light Motor Loads** - up to 5 HP
  - Examples of Easy Loads: Table Saw, Milling Machine, Drill Press
- **Medium Motor Loads** - up to 5 HP
  - Examples of Medium Loads: Belt Sander, Grinder, Mixer
- **Hard Motor Loads** - up to 3 HP
  - Examples of Hard Loads: Gearhead Lathe, Dust Collector, Fan
- **Very Hard Motor Loads** - up to 3 HP
  - Examples of Very Hard Motor Loads: Air Compressor, Sub. Pump
  - CNC, Resistive and Inductive Loads - 10 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

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