**Smart-Boost™ Rotary Converters**

**Quick Specs**

- **Single Phase Input Voltage**: 208 - 245 Volts
- **3 Phase Rated Output**: 208 - 245 Volts
- **Minimum Single Phase Circuit**: 10 Amps
- **Best Performance Single Motor Start**: 1.5HP
- **Recommended 3 Phase Sizing**: 4 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
- Built-In Motor Starter with Start/Stop Push Button Switch
- Digitally Controlled with Solid State Switches (SCR)
- 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**
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SB-3</th>
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</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>NAPCES</td>
</tr>
<tr>
<td><strong>Line</strong></td>
<td>Smart-Boost™</td>
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<tr>
<td><strong>Model #</strong></td>
<td>SB-3</td>
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</tbody>
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### General Specifications

- **Horse Power (HP)**: 3
- **Kilo-watt (kW)**: 2.2
- **Frequency (Hz)**: 60
- **Generator Type**: ODP
- **Enclosure Type**: NEMA 1 (Indoor)
- **Generator Frame**: 145

### Single Phase Electrical Specifications

- **Voltage Input**: 208-245
- **Minimum Fuse Size**: 10
- **Minimum Circuit Breaker Size**: 10
- **Maximum Fuse Size**: 20
- **Maximum Circuit Breaker Size**: 20
- **Minimum Wire Input**: 10 AWG
- **Idle Amperage**: 1.03

### Three Phase Electrical Specifications

- **Voltage Output**: 208-245 based on input voltage
- **Output Amperage**: 8
- **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-3 Smart-Boost™ Phase Converter

- **Built-In Motor Stater with Start / Stop Switch**
- **Complete 3 Phase Power Guard Protection**
- **Solid State Controller with Zero Degree Power Switches (Thyristors)**

### 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 the motor load.
- **For very hard motor loads**: Size rotary phase converter double the size of the motor load.
- **For CNC, resistive and inductive loads**: Consider Pro-Line or Smart-Phase™ Rotary Phase Converters.

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