Pro-Line Rotary Phase Converters

Quick Specs

- **Single Phase Input Voltage:** 208 - 245 Volts
- **Minimum Single Phase Circuit:** 170 Amps
- **Recommended 3 Phase Sizing:** 100 Amps
- **Voltage Balance:** +/-2-5% (Based on input)
- **3 Phase Rated Output:** 208 - 245 Volts
- **Best Performance Single Motor Start:** 40HP

**Professional. Rugged. Affordable.** Pro-Line offers more than a traditional phase converter. Built complete and loaded with features.

**Control Panel Features**

- Integrated Motor Starter with Start/Stop Push Button Switch
- Digitally Controlled & Protected Start Circuit
- Complete Phase Power Failure Protection
- CNC Voltage Balancing
- Power “ON” Indicator Light
- Easy Power Distribution Block Connections
- 10 Year Parts / Lifetime Labor Warranty
- Made In the USA

**Idler Generator Features**

- Custom Design 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
- Soft Start Idler Generator
- 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

<table>
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<th>Model</th>
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<tr>
<td>Line</td>
<td>Pro-Line</td>
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<tr>
<td>Model #</td>
<td>PL-80</td>
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#### General Specifications
- **Horse Power (HP)**: 80
- **Kilo-watt (kW)**: 60kW
- **Frequency (Hz)**: 60
- **Generator Type**: ODP
- **Enclosure Type**: NEMA 1 (Indoor)
- **Generator Frame**: Twin 324

#### Single Phase Electrical Specifications
- **Voltage Input**: 208-245
- **Minimum Fuse Size**: 170
- **Minimum Circuit Breaker Size**: 170
- **Maximum Fuse Size**: 350
- **Maximum Circuit Breaker Size**: 350
- **Minimum Wire Input**: 300 MCM
- **Idle Amperage**: 32.4

#### Three Phase Electrical Specifications
- **Voltage Output**: 208-245 based on input voltage
- **Output Amperage**: 200
- **Voltage Balance**: 2 - 5%
- **Minimum Wire to Generator**: 1 AWG to each idler (pre wired)
- **Minimum Wire to Load**: 3/0 AWG or based on load

#### Dimensions & Weights
- **Enclosure (H X W X D)**: 30" X 24" X 32"
- **Idler (Approx.) Length X Diameter**: (2) 22" X 13.5"
- **Approx. Total Shipping Weight**: 856 lbs.

### Available Accessories
- **Wired and Wireless Remote Switches**
- **Twist-Lock Outlets and Plugs**
- **Rubber Isolation Mounting Feet**

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### The PL-80 Pro-Line Phase Converter is best sized for:

- **Easy / Light Motor Loads - up to 60HP**
  - Examples of Easy Loads: Table Saw, Milling Machine, Drill Press
- **Medium Motor Loads - up to 50HP**
  - Examples of Medium Loads: Belt Sander, Grinder, Mixer
- **Hard Motor Loads - up to 40HP**
  - Examples of Hard Loads: Gearhead Lathe, Dust Collector, Fan
- **Very Hard Motor Load - up to 30HP**
- **CNC, Resistive and Inductive Loads - up to 100 Amps @240 volts**

### Sizing Notes

For **light/easy motor loads**: Size rotary phase converter up one size above motor size

For **medium motor loads**: Size rotary phase converter 1.5 times larger than motor size

For **heavy/hard motor loads**: Size rotary phase converter double the size of motor load

For **very hard motor loads**: Size rotary phase converter 2.5 times larger than the motor load

For **CNC, resistive and inductive loads**: Size rotary phase converter double the size of load

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