

# Smart-Phase™ Rotary Converters

# SP-10

## Quick Specs

See back for complete specs

**Single Phase Input Voltage:** 208 - 245 Volts

**3 Phase Rated Output:** 208 - 245 Volts

**Minimum Single Phase Circuit:** 30 Amps

**Best Performance Single Motor Start:** 6HP

**Recommended 3 Phase Sizing:** 20 Amps

**Voltage Balance:** Based on input +/-2-3%

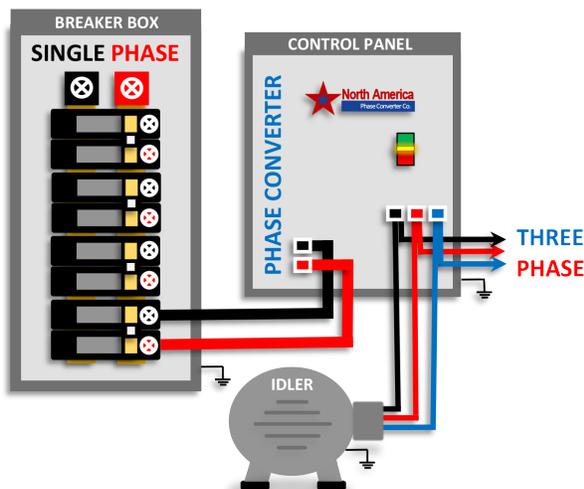
**Professional. Powerful. Affordable.** Smart-Phase™ offers more than you would expect from a phase converter. Unparalleled starting power for the toughest starting applications and precision voltage balance.

### Control Panel Features

- 600% Motor Starting Boost Current
- Built-In Motor Starter with Start/ Stop Push Button Switch
- Digitally Controlled with Solid State Switches
- 2-3% Precision Voltage Balancing
- Power "ON" Indicator Light
- Voltage Differential Technology
- 10 Year Parts / Lifetime Labor Warranty
- Made In the USA



### Typical Wiring Diagram



### 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

Model	
Brand	NAPCES
Line	Smart-Phase™
Model #	SP-10-EE
General Specifications	
Horse Power (HP)	10
Kilo-watt (kW)	7.5
Frequency (Hz)	60
Generator Type	ODP
Enclosure Type	NEMA 1 (Indoor)
Generator Frame	215
Single Phase Electrical Specifications	
Voltage Input	208-245
Minimum Fuse Size	30
Minimum Circuit Breaker Size	30
Maximum Fuse Size	50
Maximum Circuit Breaker Size	50
Minimum Wire Input	6 AWG
Idle Amperage	5.54
Three Phase Electrical Specifications	
Voltage Output	208-245 based on input voltage
Output Amperage	24.8
Voltage Balance	2-3%
Minimum Wire to Generator	10 AWG
Minimum Wire to Load	10 AWG or based on load
Dimensions & Weights	
Enclosure (H X W X D)	28.5" X 18" X 24"
Idler (Approx.) Length X Diameter	13.5" X 9.5"
Approx. Total Shipping Weight	164 lbs.

<b>The SP-10 Smart-Phase™ Digital Phase Converter is best sized for:</b>
<b>Easy / Light Motor Loads - up to 7.5 HP</b>
<i>Examples of Easy Loads: Table Saw, Milling Machine, Drill Press</i>
<b>Medium Motor Loads - up to 7.5 HP</b>
<i>Examples of Medium Loads: Belt Sander, Grinder, Mixer</i>
<b>Hard Motor Loads - up to 6 HP</b>
<i>Examples of Hard Loads: Gearhead Lathe, Dust Collector, Fan</i>
<b>Very Hard Motor Load - up to 5 HP</b>
<i>Examples of Very Hard Motor Loads: Air Compressor, Sub. Pump</i>
<b>CNC, Resistive and Inductive Loads - 20 Amps @240 Volts</b>

**Sizing Notes** **SP-10**

Smart-Phase™ Digital Rotary Phase Converters represent the ultimate technology for converting single-phase electrical power to three-phase electrical power.

Smart-Phase™ Digital Rotary Phase Converters utilize the latest advances in solid state power switching technology. Proprietary software controls power switching devices that generate three-phase power with more precision and efficiency.

Smart-Phase™ Converters are optimized to run at 80% load of the full converter output.



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



**Digital Controlled and Solid State Switches**



**Complete 3 Phase Power Guard Protection**