

50 hp Rotary Phase Converters

All American Rotary rotary phase converters provide the voltage balance and true sinusoidal 3-phase AC output that many of today's modern machines require. Our control panel has been engineered to exceed UL, CSA and NEMA standards. We offer the easiest installation in the industry with straight line runs, terminal block connections, built-in starter, power guard restart protection and no-stress capacitor mountings. Rotary phase converters can be operated from almost any 240V single-phase power source that has adequate current carrying capacity, and they can operate any type of equipment that requires 3-phase power.

Together with Baldor Electric, American Rotary has created the ultimate Idler/Generator to provide optimum performance for the phase converter. American Rotary's custom engineered idlers are engineered to deliver balanced 3-phase voltage throughout the range of loads that you apply to the phase converter during normal operation. The result is that you can turn on your phase converter and not worry about it again. When competitors use standard 3-phase motors as idlers, they are often very unbalanced without a 3-phase load applied, resulting in a need to turn off the phase converter to ensure it is not damaged from imbalanced voltages and current. Combined with our extremely efficient operation, American Rotary phase converters are a great, worry free solution to your power needs.



24/7 Tech Support

Call us at 1-888-743-6832 to reach us 24 hours a day.



UL Listed

Our products are available UL Listed to US and Canadian Safety Standards.



Made in USA

Our panels and idlers are 100% manufactured in the USA.



Control Panel

- Push Button ON/OFF Switch w/ PowerGuard Protection
- Heavy Duty Performance, 100% Power
- Powder-Coated Steel Enclosures for an attractive and durable appearance
- Integrated Protection in case of power interruption
- Easy access terminal block wiring connections
- Stress-free component mounts prevent leakage
- Oil-Filled Capacitors with raised voltage ratings optimized for the demands of phase conversion
- Best Warranty in the Industry

Idler / Generator

- Designed and engineered specifically for phase conversion
- Achieve optimized voltage and current balance throughout the full load of the converter
- Copper windings with ISR magnet wire
- Awarded a Soft Start Rating by drastically reducing in-rush current upon startup
- Runs cool, quietly and efficiently at synchronous speed indefinitely, with or without load applied
- Manufactured in the USA by Baldor Electric

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Product Configurations

American Rotary offers a variety of options that match the right phase converter performance to your specific needs. Some of our choices include:

- **Wall Mount** (pictured on front) or **Floor Mount** (at right) – available for all models and sizes.
- **Outdoor/NEMA 3R** – we can configure the control panel and/or idler to be outdoor durable for exterior installations.
- **Controller Options** – how the phase converter start circuit is operated:
 - **Basic** – good voltage balance at an affordable price.
 - **Mechanical CNC** – tighter voltage balance for sensitive loads.
 - **Digital CNC** – the most advanced controller in the industry, it provides unparalleled protection against voltage variations, changing loads, and utility disruptions.



General Specifications	Basic	Mechanical CNC	Digital CNC
Model	AB-50-S	AR-50-S	AD-50-S
HP	50	50	50
kW	37.3	37.3	37.3
UL Listing Available (upgrade)	Yes	Yes	No
Start Circuit Protection	n/a	Excellent	Ultimate
Efficiency	>98%	>98%	>98%
Idle Power Consumption (kW) *	1.5 (\$.15/hr)	1.5 (\$.15/hr)	1.5 (\$.15/hr)
Operating Reliability (hours)	MTBF 50,000	MTBF 50,000	MTBF 50,000
Single Phase Requirements			
Input Voltage	208-250	208-250, 480V optional	208-250
Approximate Idle Amps	6.2	6.2	6.2
Frequency (Hz)	60	60	60
Three Phase Specifications			
Output Voltage	Input Voltage +/- 10%	Input Voltage +/- 5%	Input Voltage +/- 5%
Voltage Balance	0-10%	0-5%	0-5%
Maximum Starting Current (Amps)	126	126	126
Physical Specifications			
Idler RPM	1750	1750	1750
Idler Length x Diameter x Height	22.5" x 21" x 16"	22.5" x 21" x 16"	22.5" x 21" x 16"
Panel Height x Width x Depth	22.5" x 18.5" x 8.25"	22.5" x 18.5" x 8.25"	22.5" x 18.5" x 8.25"
Idler Color	Baldor Gray	Baldor Gray	Baldor Gray
Panel Color	Black	Black	Black
Panel Style	NEMA 1 Indoor	NEMA 1 Indoor	NEMA 1 Indoor
Idler Style	Fully Guarded	Fully Guarded	Fully Guarded
Total Weight (pounds)	476	476	476

* Operating Cost Estimates based on \$0.10 per kWh power cost

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