

AR | AD | ADX | AUL-40

Rotary Phase Converter Data Sheet



American Rotary has been making premium rotary phase converters for more than 20 years. American Rotary provides industry leading telephone support for technical, application, and sizing questions. American Rotary stands behind its products with the best warranty in the industry. American Rotary uses premium components to ensure that its products perform for you. American Rotary is a UL Certified Control Panel Builder, and its rotary phase converters are available UL Listed to US and Canadian Safety Standards. American Rotary has partnered with Baldor Electric one of the world's largest and most respected manufacturers to supply its custom-engineered idler/generators. American Rotary is listed with D&B as well as the Better Business Bureau, and is committed to high ethical and privacy standards.

American Rotary's Wisconsin based team is dedicated to technical support, customer service and delivering value to its customers. With in-house R&D, engineering, tech support and manufacturing, American Rotary delivers what you need. Listed with D&B and with the Better Business Bureau, American Rotary is committed to providing you with a great buying experience. American Rotary challenges you to compare our warranties to any other manufacturer's – American Rotary stands behind its units!

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

Controller Options – how the phase converter start circuit is operated:

AR– General purpose light duty phase converter. This model is perfect for easy to light duty loads such as a drill press, table saw, etc. It comes with a 5 year warranty on the Converter itself and a 2 year mfg warranty through Baldor on the electric generator.

AD – Our AD model is built with our MicroSmart Controller that will monitor the voltage every millisecond to ensure your equipment has the right voltage all the time. This MicroSmart controller provides precise control of the phase converter which provides better voltage balance and prolonged life of the converter. Our AD Model is perfect for voltage sensitive medium duty loads such as CNC Equipment, EDM Machines, Welders, Ovens, etc. These types of equipment require precise voltage balance making the AD your perfect solution.

ADX- Our ADX Model includes all the features and benefits of our AD Model but also has our Current Transient Reactor (also known as CTR) in it. This CTR Controller, along with our MicroSmart Controller, allows higher amounts of current to be drawn through the phase converter. This produces more torque while maintaining voltage and power with precision for sensitive equipment. These ADX Models are perfect for hard starting loads such as Air Compressors, HVAC, Refrigeration and equipment such as Wide Belt Sanders that have a long start time to get up to speed.

AUL- Our AUL unit comes with all the benefits and features of our ADX model with added components to not only meet, but exceed UL safety guidelines. These units come UL certified with the appropriate documentation. UL certification is not required in all locations or installations so please check with your local inspectors to see if the AUL model is the right unit for you.



ADX Model Shown in Picture

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
- 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
- Soft Start Rating by drastically reducing in- rush current upon startup
- Runs cool, quietly and efficiently with or without load applied
- Manufactured in the USA by Baldor Electric

Optional Upgrades

- Floor Mount | 3PH Breaker | 3PH Receptacle | Surge Protection | Wired or Wireless Remote Switch | Automation Control* | Phase Monitoring* | 480V-Special Order* | Outdoor or see our AI Series*

**Not available on AR Model*

| General Specifications | Data |
|-----------------------------|------------------------------|
| Model | 40 |
| KVA | 20 |
| Approximate Idle Amps | 4.97 |
| Efficiency | >98% (at Power Factor of .9) |
| Idle Power Consumption (kW) | 1.2(\$0.12/hr) |
| Operating Reliability | MTBF 50,000 |
| Single Phase Requirements | |
| Input Voltage | 208 - 250 |
| Frequency (Hz) | 50 / 60 |
| Minimum Wire Size | 1 |
| Minimum Breaker Size | 125 |
| Three Phase Specifications | |
| Voltage Balance | 0 - 5% |
| Maximum Starting Current | 56 amps / 20HP |
| Maximum Running Current | 112 amps / 40HP |
| Physical Specifications | |
| Idler Insulation Class | F |
| Idler RPM | 1750 |
| Idler L X D X H | 22.5" X 21" X 16" |
| Panel H X W X D | 24" X 18" X 8" |
| Panel Style | Nema 1 / Type 1 Indoor |
| Total Weight (lbs) | 368 |

Learn More By Following Us On:

