



American Rotary Advantage

American Rotary has been making premium rotary phase converters for more than a decade. For more than 10 years, American Rotary has led the industry in innovation and design. We have introduced, field-tested, and proven several technologically advanced features which have driven increases in the reliability and precision voltage balancing capabilities of phase conversion unmatched in the industry.

We provide the industry leading telephone support for technical, application and sizing issues. We stand behind our products with the best warranty in the industry. We use premium components to ensure that our products perform for you. American Rotary is a UL Certified Control Panel Builder, and our rotary phase converters are available UL Listed to US and Canadian Safety Standards. We have partnered with Baldor Electric one of the world's largest and most respected manufacturers to supply our customengineered idler/generators. The engineers at American Rotary worked with the engineers at Baldor for over a year designing a custom induction generator for phase conversion, which reduced the inrush current on start-up so drastically (83% reduction...a stock motor requires 600% more inrush) that American Rotary's induction generator was granted a Soft Start rating, and a resulting reduction in operating cost!

American Rotary is listed with D&B as well as the Better Business Bureau, and we are committed to high ethical and privacy standards.

American Rotary offers 3 different types of Rotary Phase Converters



AR Series
perfect for light to medium
duty, general purpose loads



if the AR series is like a carbureted engine, the AD series is fuel injected...more powerful, reliable, and precise. Runs w/fully programmable MicroSmart controller

AD Series



in addition to the AD, the ADX series adds nitrous... 250% more starting power, for compressors, pumps, flywheel loads, etc. w/fully programmable MicroSmart controller

ADX Series

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AMERICAN ROTARY

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Standard Features

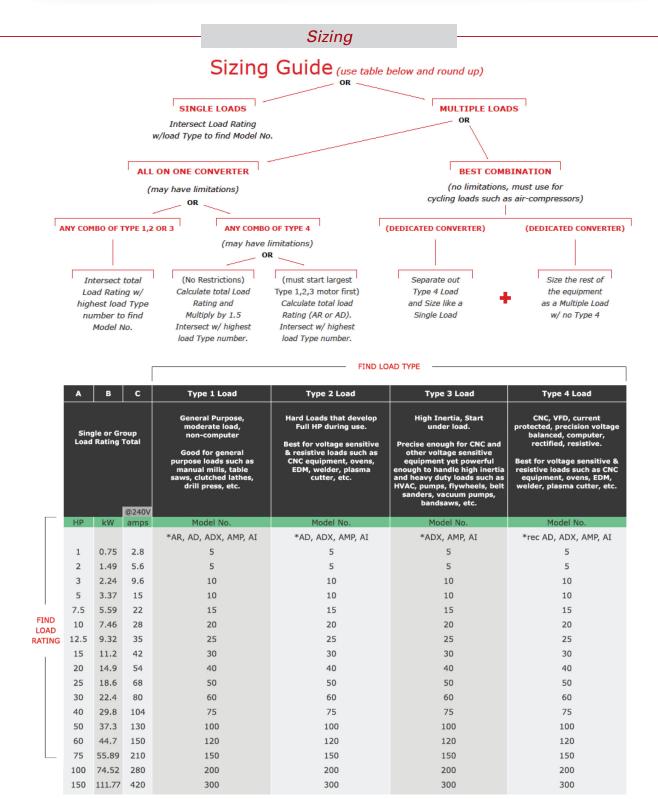
American Rotary engineers the entire phase converter system to provide optimum performance. We are the only manufacturer that has developed a read induction Generator, along with two separate optimized start and run circuits. For ease of installation, we build the starter into the converter.

	AR	AD	ADX
Made in the USA	*	*	*
Modular & Expandable	*	*	*
VIT Generator		*	*
Full Current Latching Starter	*	*	*
3 Phase Breaker and Receptacle Slots	*	*	*
MicroSmart Digital Industrial Programmable Controller		~	~
CTR Transient Reactor			~

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note: *We offer the following product model offerings: AR 5,10,15,20 | AD 5-75 | ADX 5-300 | AMP 5, 10, 20 | Al 20-300 (continued on next page)

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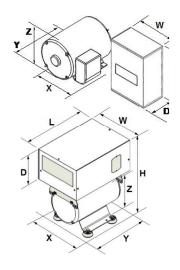
Specifications

Converter Selection & Load Chart (208-240V)								
			Min. Recommended Wire Gauge					
Model	Largest Motor	Max Total HP(Amps) For	1-Phase	3-Phase	Panel to Idler			
Rating	Start	Optimal Performance	Input	Output	Wiring			
5	2.5	5 (14)	8	12	12			
7	3.5	7 (19.6)	8	10	12			
10	5	10 (28)	8	10	12			
15	7.5	15 (42)	6	8	10			
20	10	20 (56)	4	6	10			
25	12.5	25 (70)	2	6	8			
30	15	30 (84)	1	4	8			
40	20	40 (112)	1/0	3	6			
50	25	50 (140)	3/0	2	4			
60	30	60 (168)	4/0	1/0	3			
75	37.5	75 (210)	250 MCM	2/0	2			

Converter Selection & Load Chart (480V)								
			Min. Recommended Wire Gauge					
Model	Largest Motor	Max Total HP(Amps) For	1-Phase	3-Phase	Panel to Idler			
Rating	Start	Optimal Performance	Input	Output	Wiring			
5	2.5	5 (6)	12	14	12			
7	3.5	7 (9)	12	14	12			
10	5	10 (13)	10	12	12			
15	7.5	15 (19)	10	12	10			
20	10	20 (25)	8	10	10			
25	12.5	25 (31)	8	10	10			
30	15	30 (38)	6	8	10			
40	20	40 (50)	4	6	8			
50	25	50 (63)	2	4	6			
60	30	60 (75)	1	3	4			
75	37.5	75 (94)	2/0	2	3			

Dimensions & Weights

Part Number AR AD ADX	5	7.5	10	15	20	25	30	40	50	60	75
L (in.)	15.8	15.8	15.8	15.8	15.8	19.3	19.3	23	23	23	23
W (in.)	11.3	11.3	11.3	11.3	11.3	13.5	13.5	19	19	19	19
D (in.)	7.75	7.75	7.75	7.75	7.75	8.25	8.25	8.3	8.3	8.3	8.3
X (in.)	11.5	13	12.5	14.5	17.5	17.5	20.5	23	23	22	22
Y (in.)	12	12.5	12	15.5	14	17	18.5	21	21	21	22
Z (in.)	8.5	9.5	10	11	12	13	14	16	16	17	17
H (in.)	17.4	18.4	18.9	19.9	20.9	22.5	23.5	26	26	27	27
Weight (lbs.)	123	142	168	249	296	320	382	398	506	568	617







Installation



Α	В		C D E		E	F	G	
Load FLA (full load amps)	3 ph. Wire	gauge	3 ph. Breaker or Fuse	or Panel to Generator wire gauge ire 3 ph. Wire from Phase converter panel to		1 ph. Wire gauge	1 ph. Safety Disconnect	1 ph. Breaker or Fuse
Amps @ operating voltage	Load FLA (round		3 ph. Wire amp rating x 1.25 (round up)			3 ph. Load amps x	1 ph. Amps (round up)	1 ph. Wire amp rating x 1.25 (round up)
240V = HP X 2.8	increase wire size for every 50 feet		Caution:	Converter HP	wire size	1.5 for AR, AD, ADX voltage	available in these common sizes	Caution:
= (Kw X 2.8)/PF	wire size	amps	This is a minimum rating for a breaker or Fuse for proper performance and operation of the phase converter and may not meet	5	12	balanced phase converters or 1.9 for other rotary type phase converters by other manufacturers	30 A	This is a minimum rating for breaker or Fuse for proper performance and operation of the phase converter and may not meet
= Kva / 2.75	14	20		7.5	12		60A	
480V = HP x 1.4 = (kW x 1.4)/PF = kVA / 1.4	12	25		10	12		100A	
	10	35		15	12		200A	
	8	50		20	10		400A	
	6	65		25	8		600A	
	4	85		30	8		also commonly	
	3	100		40	6			
208V	2	115		50	4			
= HP X 3.2	1	130		60	3			
= (Kw X 3.2)/PF	1/0	150		75	2			
= Kva / 3.15	2/0	175	applicable	increase wire size for every 50 feet.		Use table in column B to find wire size.	available in fused or non- fused	applicable local, state or national electric
PF (power factor)	3/0	200	local, state or national electric codes.					
	4/0	230						
typical motor = .8	250	255						codes.
resistive heater = 1	300	285						1000000
welder = .85	350	310						

NOTE: Ground all equipment. This table is not intended to replace or superceed Local, State or National Electric codes.