

XR3

Rotary Phase Converter Data Sheet



“POWER Wave XR™ - Clean... Sophisticated... Reliable”

Through many hundreds of hours of research and design optimization, TEMCo is proud to offer POWER WAVE XR™; a new breed of Phase Conversion technology. Based on many years of experience in the industrial power conversion industry, TEMCo has melded all of the best of each of the available tools in its technological arsenal to provide a new and unique approach to this fundamental need.

Engineered to meet the rigorous requirements of the most demanding three phase machines, TEMCo’s POWER WAVE™ technology is a signature feature found only on TEMCo phase converters.

POWER WAVE™ produces a three phase sinusoidal waveform, generated from a single phase source, offset at 120°, which smoothly alternates the voltage and current of AC (alternating current) power without harmonic distortion. It implements precision rotor/winding tuning to produce its sinusoidal output. Many competing technologies produce harmonic distortion and unbalanced waveforms. Harmonic distortion can cause overheating, and reduce the lifespan of the machinery attached to this type of converter. POWER WAVE™ technology eliminates this problem.

The sky is the limit with POWER WAVE™. With its versatility it can power any type of three phase machinery, ranging from Miller welders and Hobart mixers, to Hurco machining centers and Yamaha robotics. TEMCo is on the forefront of phase converter technology and continues to innovate and provide products that produce superior quality power. *When you demand the best, demand TEMCo.*

Common Phase Converter Applications:

- | | | |
|------------------------|------------------|-------------|
| ▪ Machine Shops | ▪ Petrochemicals | ▪ High Tech |
| ▪ Woodworking | ▪ Home Hobbyist | ▪ Military |
| ▪ Farm Equipment | ▪ Oil Fields | ▪ Aerospace |
| ▪ Restaurant Equipment | ▪ Irrigation | ▪ Hospitals |

“Make Your Money Work for You – not Against You”

You know your business and how to make it make you money. Why purchase a solution with a limited lifespan without heavy maintenance? The TEMCo POWER WAVE XR™ Phase Converter line has been engineered to eliminate the cost of long term maintenance.

Of course none of this means anything without a guarantee...

It comes with a 5 Year Warranty – *“Now that’s Quality”*



rev 1.0

Corporate Headquarters: TEMCo – Tower Electric Motor Company 41474 Christy St. Fremont CA 94538 USA
Inside USA (800) 613-2290 International (510) 490-2187 Fax (510) 490-1507 www.temcophaseconverter.com

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POWER WAVE XR™ Features



100% Copper Windings
(Energy Efficient,
Environmentally Friendly)



Rugged Heavy Duty
Rotary Design



Quiet Operation, 63db @
10ft
(No Louder Than Normal
Conversation)



American Design &
Assembly



208-240v Operation



Industry Leading 5 Year
Warranty



“Unique Design Approach to Connections”

TEMCo uses the simplest and fastest connections systems in the industry. Save time during installation through clearly marked, committed connections points for your single phase input, three phase output and grounding connections. Just insert each wire and tighten it down; “it’s that simple”.

POWER WAVE™ Phase Converter Specifications – Model XR3

Please contact us at (510) 490-2187 if you have questions regarding these specifications.			230v
1-phase input voltage	230v ±10%	Maximum Easy run or start HP	3.7HP
1-phase input frequency	60Hz	Maximum Medium run or start HP	2.5HP
3-phase output voltage	= Input voltage + 5% on T2 (non-loaded)	Maximum Hard run or start HP	1.6HP
3-phase output frequency	60Hz	Maximum group load HP	3.7HP
3-phase output voltage tolerance	± 5%	Continuous output amps	10A
3-phase output phase angle	120°	Peak 3-phase output amps	13.4A
Temperature rating	0-55° C Ambient	Peak kW output	3kW
Ambient humidity	<95% (non-condensing)	Peak 1-phase amps required	23.2A
Maximum altitude	3300 ft above sea level	Approx. 1-phase idle amps	4A
Enclosure	NEMA 1	1-phase breaker recommended	25A
		1-phase fuse recommended	25A
Recommended RVI Mounting Isolator	RVI501	Recommended 1-phase wire size	12 AWG
Recommended Magnetic Starter	MAG3	Recommended 3-phase wire size	14 AWG

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