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PHASE PERFECT[®]

DIGITAL PHASE CONVERTERS

Creating clean, balanced 3-phase power from a single phase source

Phase Perfect is the affordable, convenient alternative to utility three-phase power for CNC Machines, Submersible Pumps, HVAC, Elevators, Food Service, Medical Equipment, Woodworking, Agriculture, Broadcasting, Automotive, Printing, Drilling, Compressors, Welding, Winery Equipment, EDM Machines...and more!

Phase Perfect digital phase converters. . .

- built with the latest advances in solid state power switching technology
- operate all types of three-phase equipment, including voltage sensitive equipment, without risk of damage from voltage unbalance
- operate with high efficiency, conserving energy and reducing demand on the single-phase service
- compared to other phase converters, are lightweight, quiet and easy to install

**As good as utility three-phase power. . .
MAYBE EVEN BETTER!**

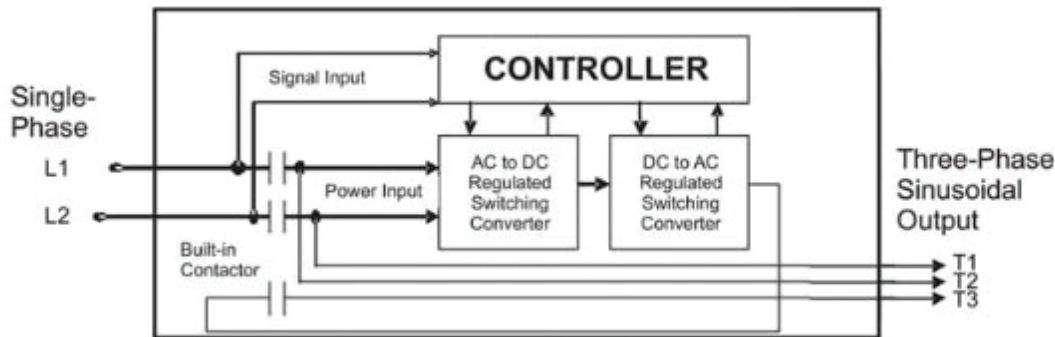


AMPRO ELECTRIC LTD.

1-800-361-3509
www.amproelectric.com

Precision technology for clean, balanced three-phase power.

Phase Perfect digital phase converters are based on a unique, patented design that utilizes IGBT double-conversion technology. Proprietary software in the digital signal processor (DSP) precisely controls the power switching process to generate clean, balanced three-phase power suitable for powering virtually any three-phase equipment.



Imbalanced Power

Phase imbalance adversely impacts both the performance and the life of a motor. Even modest voltage imbalance between the phases will require a motor to be de-rated. Phase imbalance will significantly reduce the life of motors that have a high duty cycle and operate at their maximum rated capacity.

IEEE Recommendations on Motors and Voltage Balance

Voltage Imbalance in Percent	De-rate Motor to These Percentages of the Motor's Rating
1%	98%
2%	95%
3%	88%
4%	82%
5%	75%

Phase Perfect balances phase-to-phase voltage within 1% under all load conditions.

Balanced three-phase voltage is important for the safe, efficient operation of all three-phase equipment, even simple three-phase motors. Unbalanced voltage can cause loss of power, poor efficiency, and even damage to three-phase equipment!

Model	PT-330	PT-355	PT-380	PT-3110	PT-3160
Rated HP	10	20	30	40	60
Output KVA	15	26	40	53	80
Input voltage	187 V to 260 V				
Phase to phase voltage balance	Better than 1%				
Maximum steady state output	36 amps	64 amps	96 amps	130 amps	190 amps
Momentary overload current, 4 seconds	150 amps	280 amps	400 amps	560 amps	800 amps
Output voltage	Equal to input voltage				
Standby power consumption	100 watts	240 watts	400 watts	480 watts	800 watts
Efficiency	97% typical				
Enclosure	Type 1 indoor or 3R rain proof				
Weight	75 lb.	115 lb.	180 lb.	260 lb.	380 lb.
Dimensions (H x W x D in.)					
Type 1 indoor	20 x 17 x 13	26 x 19 x 14	31 x 24 x 13	26 x 19 x 14 (x2)	31 x 24 x 13 (x2)
Type 3R rainproof	23 x 17 x 16	30 x 19 x 14	35 x 24 x 13	30 x 19 x 14 (x2)	35 x 24 x 13 (x2)



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