



AMPRO ELECTRIC LTD.

ECRA / ESA LICENCE #7015465

PHASE PERFECT®

Digital Phase Converter

230 V | Voltage Doubling™ | 460 V
(230 V 1PH to 460 V 3 PH)



PT
SERIES
7.5 HP to 175 HP



PTE
SERIES
7.5 HP to 20 HP



PTS
SERIES
3 HP to 7.5 HP



**INTUITIVELY
ENGINEERED**



EFFICIENCY | QUALITY | COST SAVINGS

PHASE PERFECT®

Digital Phase Converter

The Phase Perfect® offers **Uncommon Value** in phase conversion technology. Power single or multiple loads quietly, efficiently, and reliably. The Phase Perfect® excels where other technologies fail and will work with any variety of applications and equipment.

Increased Efficiency

- Now 97% efficient at full load
- Lower standby losses

The Best Power Quality

- Voltage balance within 2%

Less Noise

- Quieter than a rotary phase converter

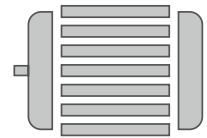
Rugged & Reliable

- NEMA 1 indoor & NEMA 3R outdoor enclosures available

PHASE PERFECT®
Digital Phase Converter



Rotary Converter



	Phase Perfect®
Yearly operating cost	Idle cost \$89.69
Energy usage - standby power	80 Watts
Energy usage - running efficiency	98.7%
Phase Perfect® load capacity	10 HP 36 Amps
Maintenance	None

	Rotary Converter
Yearly operating cost	\$1,513.51
Energy usage - standby power	1350 Watts
Energy usage - running efficiency	87%
Equivalent rotary converter load capacity	20 HP 36 Amps
Maintenance	Replace start & run capacitors every 1-3 years

Phase Perfect®
Yearly Energy Savings \$1,432.82

*Results are based on an elevator type application with 22 hours idle/non-operating time per day, with the elevator ready for operation 24/7, at an electric rate of \$0.14 per kw/hr.

PHASE PERFECT® Model Comparison



Features

PT SIMPLE®

PT ENTERPRISE®

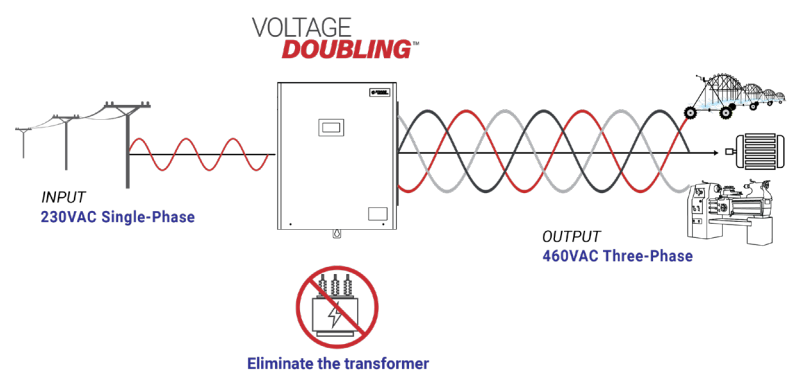
PT PERFORMANCE®

Solid-State Phase Conversion	✓	✓	✓
Robust Load Protection	✓	✓	✓
Enclosure Rating	NEMA 1 / NEMA 3R	NEMA 1 / NEMA 3R	NEMA 1 / NEMA 3R
Utility-Grade Three Phase Output	✓	✓	✓
Multiple Load Capability	✓ ¹	✓	✓
Regenerative Load Capability	✗	✓	✓
Temp Rating	40° C (104° F)	40° C (104° F)	50° C (122° F)
Voltage-Doubling	✗	✓	✗
Ducted Cooling	✗	✗	✓
508A Panel Shop Customization	✗	✗	✓

UNCOMMON VALUE

¹ May derate output voltage during harder starting loads to reduce peak starting current.

PTE
SERIES



Part Number	Horsepower	Output kVA	Input Voltage Range	Output Voltage Range	Max Steady State Output	Max AC Input	Standby Power Consumption	NEMA 3R Dimensions (H x W x D)	NEMA 1 Dimensions (H x W x D)
230 V Models - PT Simple 230 V 1PH to 230 V 3PH							¹ Max starting capacity of 5 HP depending on application		
PTS003	3 HP	4.5 kVA	187 - 260 V	Equal To Input	11 A	19 A	60 W	18" x 12" x 6"	18" x 12" x 11"
PTS005	5 HP	7.4 kVA	187 - 260 V	Equal To Input	18 A	31 A	60 W	18" x 12" x 6"	18" x 12" x 11"
PTS007	7.5 HP ¹	10.8 kVA	187 - 260 V	Equal To Input	26 A	45 A	70 W	18" x 12" x 7"	18" x 12" x 12"
460 V Models - PT Simple 460V 1PH to 460 V 3PH									
PTS405	5 HP	8.3 kVA	440 - 520 V	Equal To Input	10 A	18 A	48 W	18" x 15" x 7"	19" x 15" x 12"
PTS407	7.5 HP	10.8 kVA	440 - 520 V	Equal To Input	13 A	22 A	52 W	18" x 15" x 7"	19" x 15" x 12"
230 V Models - PT Enterprise 230 V 1PH to 230 V 3PH									
PTE007	7.5 HP	10.8 kVA	187 - 260 V	Equal To Input	26 A	45 A	70 W	26" x 17" x 8"	26" x 19" x 12"
PTE010	10 HP	14.9 kVA	187 - 260 V	Equal To Input	36 A	62 A	74 W	26" x 17" x 8"	26" x 19" x 12"
PTE015	15 HP	21.6 kVA	187 - 260 V	Equal To Input	52 A	90 A	77 W	28" x 17" x 9"	30" x 20" x 16"
PTE020	20 HP	26.6 kVA	187 - 260 V	Equal To Input	64 A	111 A	80 W	28" x 17" x 9"	30" x 20" x 16"
460 V Models - PT Enterprise 230 V 1 PH to 460 V 3PH									
PTE207	7.5 HP	10.8 kVA	187 - 260 V	Approx. 2x input	13 A	45 A	200 W	34" x 18" x 9"	35" x 20" x 14"
PTE210	10 HP	14.9 kVA	187 - 260 V	Approx. 2x input	18 A	62 A	320 W	34" x 18" x 9"	35" x 20" x 14"
PTE215	15 HP	22.4 kVA	187 - 260 V	Approx. 2x input	27 A	94 A	435 W	34" x 18" x 9"	35" x 20" x 14"
PTE220	20HP	26.6 kVA	187 - 260 V	Approx. 2x input	32 A	111 A	550 W	34" x 18" x 9"	35" x 20" x 14"
460 V Models - PT Enterprise 460 V 1PH to 460 V 3PH									
PTE407	7.5 HP	10.8 kVA	440 - 520 V	Equal To Input	13 A	22 A	52 W	28" x 17" x 9"	30" x 20" x 16"
PTE410	10 HP	14.9 kVA	440 - 520 V	Equal To Input	18 A	32 A	68 W	28" x 17" x 9"	30" x 20" x 16"
PTE415	15 HP	22.4 kVA	440 - 520 V	Equal To Input	27 A	48 A	71 W	28" x 17" x 9"	30" x 20" x 16"
PTE420	20 HP	26.6 kVA	440 - 520 V	Equal To Input	32 A	55 A	74 W	28" x 17" x 9"	30" x 20" x 16"
230 V Models - PT Performance 230 V 1PH to 230 V 3PH									
PT007	7.5 HP	10.8 kVA	187 - 260 V	Equal To Input	26 A	45 A	70 W	38" x 25" x 20"	37" x 25" x 17"
PT010	10 HP	14.9 kVA	187 - 260 V	Equal To Input	36 A	62 A	74 W	38" x 25" x 20"	37" x 25" x 17"
PT020	20HP	26.6 kVA	187 - 260 V	Equal To Input	64 A	111 A	80 W	38" x 25" x 20"	37" x 25" x 17"
PT030	30 HP	39.4 kVA	187 - 260 V	Equal To Input	95 A	165 A	175 W	35" x 21" x 19"	33" x 21" x 15"
PT040	40 HP	54.0 kVA	187 - 260 V	Equal To Input	130 A	225 A	190 W	39" x 23" x 20"	36" x 23" x 16"
PT050	50 HP	68.5 kVA	187 - 260 V	Equal To Input	165 A	286 A	235 A	46" x 26" x 20"	45" x 26" x 19"
PT060	60 HP	78.9 kVA	187 - 260 V	Equal To Input	190 A	329 A	260 W	46" x 26" x 20"	45" x 26" x 19"
PT075	75 HP	99.7 kVA	187 - 260 V	Equal To Input	240 A	416 A	300 W	46" x 26" x 20"	45" x 26" x 19"
460 V Models - PT 460 V 1PH to 460 V 3PH									
PT407R	7.5 HP	10.8 kVA	440 - 520 V	Equal To Input	13 A	22 A	52 W	31" x 23" x 15"	31" x 17" x 15"
PT410R	10 HP	14.9 kVA	440 - 520 V	Equal To Input	18 A	32 A	68 W	31" x 23" x 15"	31" x 17" x 15"
PT415R	15 HP	22.4 kVA	440 - 520 V	Equal To Input	27 A	47 A	71 W	31" x 23" x 15"	31" x 17" x 15"
PT420R	20 HP	26.6 kVA	440 - 520 V	Equal To Input	32 A	55 A	74 W	31" x 23" x 15"	31" x 17" x 15"
PT430R	30 HP	38.2 kVA	440 - 520 V	Equal To Input	46 A	80 A	87 W	38" x 25" x 20"	37" x 25" x 17"
PT440R	40 HP	50.7 kVA	440 - 520 V	Equal To Input	61 A	105 A	180 W	46" x 26" x 20"	45" x 26" x 17"
PT450R	50 HP	64.0 kVA	440 - 520 V	Equal To Input	77 A	134 A	190 W	46" x 26" x 20"	45" x 26" x 17"
PT460R	60 HP	75.6 kVA	440 - 520 V	Equal To Input	91 A	157 A	220 W	46" x 26" x 20"	45" x 26" x 17"
PT475R	75 HP	88.9 kVA	440 - 520 V	Equal To Input	107 A	185 A	270 W	46" x 26" x 20"	45" x 26" x 17"
PT4100R	100 HP	118.0 kVA	440 - 520 V	Equal To Input	142 A	246 A	300 W	46" x 26" x 20"	45" x 26" x 17"
PT4150R	150 HP	164.4 kVA	440 - 520 V	Equal To Input	198 A	343 A	300 W	46" x 26" x 20"	45" x 26" x 17"
PT4175R	175 HP	182.9 kVA	440 - 520 V	Equal To Input	220 A	381 A	300 W	46" x 26" x 20"	45" x 26" x 17"

PT(E) 3.0_04172023