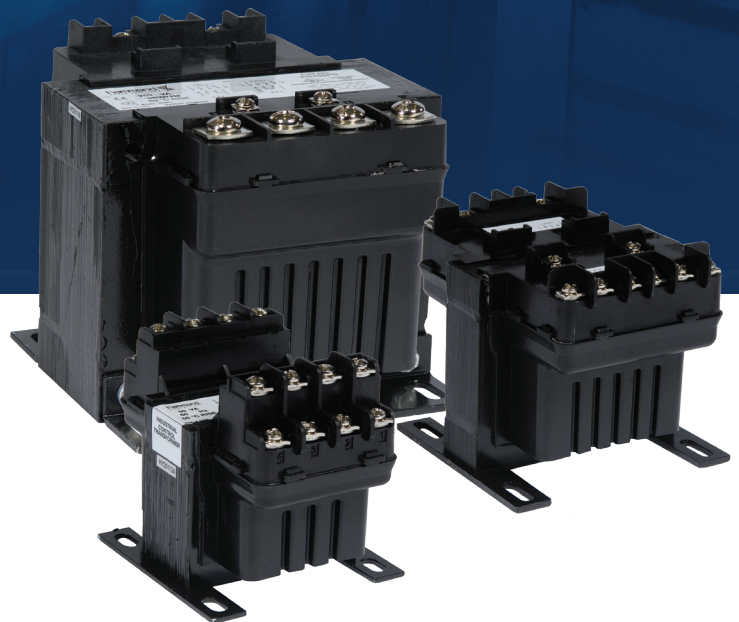


hammond
POWER SOLUTIONS



HPS IMPERATOR™

Encapsulated Industrial
Control Transformers



HPS Imperator™ Encapsulated Industrial Control Transformers

Innovative Design

The HPS Imperator series is a unique innovative and compact design that provides the ideal solution for any industrial control application.

The HPS Imperator's unique terminal block design allows for the quick and easy installation of standard secondary or optional primary 13/32" x 1 1/2" midget/type CC fuse clips on every unit. This is the simplest and most inexpensive fusing installation provided on any industrial control transformer in the market today.

The windings and internal terminations of the HPS Imperator are encapsulated which protects them from moisture, dirt and other airborne contaminants. The custom molded coil covers, with their unique 'fin shaped' design, combine superior transformer cooling properties with a clean bold look.

The HPS Imperator utilizes custom serrated terminals, in combination with standard SEMS washer screws, making connections quicker to install; and provides superior connection strength when connecting with bare, solid or stranded wire. It also allows for ring or spade termination connectors.

The Perfect Solution

The HPS Imperator series of industrial control transformers are specifically designed to meet the high inrush current levels where electromagnetic components such as relays, solenoids and magnetic motor starters are used.

With 11 standard voltage groups, a VA range from 50VA to 1500VA and available with standard secondary and optional primary fuse kits, the HPS Imperator series provides the perfect solution for any application.

Superior Quality & Value

The HPS Imperator series design, utilizing superior insulation systems and being constructed with high quality silicon steel laminations for optimum performance, meet or exceed UL, CSA and CE standards.

Backed by an industry leading LIFETIME warranty, the HPS Imperator industrial control transformer line offers superior performance, quality and value.

Applications



Process Controls



Panel Shops



Machine Automation



Control Boards



HVAC Panels



Power Timers, Solenoids, and Controllers

Industries



Paper Mills



Printing



Automotive



Packaging Systems



Process Automation

Approvals

- UL Listed (Approved for U.S. and Canada)
- CE Mark standard on all units
- RoHS Compliant

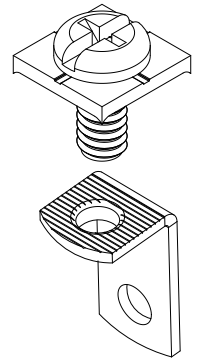


Features and Benefits

- 600V class, rated industrial control transformers
- 11 standard multi primary and secondary voltage groups available¹
- 50/60 Hertz (60Hz on PH***AJ & PH***AR)
- VA range from 50 up to 1500¹
- Robust insulation system:
 - › 50-150VA, temperature rise 55°C, insulation class 130°C
 - › 250-1500VA, temperature rise 80°C, insulation class 130°C
- Constructed with high quality silicon steel laminations that provide optimum performance and reliability
- Encapsulated coils encased in a custom injection molded cover, protect coils and terminations from moisture, dirt and other industrial airborne contaminants
- Mounting Feet: made of heavy steel and welded or bolted to the core, these mounting feet provide superior strength in a compact design
- Termination: combination slot/Phillips #6 screw, complete with SEMS washer (suitable for 18 AWG to 14 AWG solid or 14 AWG stranded wire)
- Standard SEMS washers - supplied on all units²
- Standard secondary fuse kits -utilizing 13/32" x 1 1/2" [10.3 x 38.1 mm] midget/type CC fuse clips (supplied with all units)
- Optional primary fuse kits available utilizing 13/32" x 1 1/2" [10.3 x 38.1 mm] midget/type CC fuse clips
- Optional finger safe terminal covers available on all units
- LIFETIME Warranty (Limited)

¹ Special voltages and VA sizes available upon request

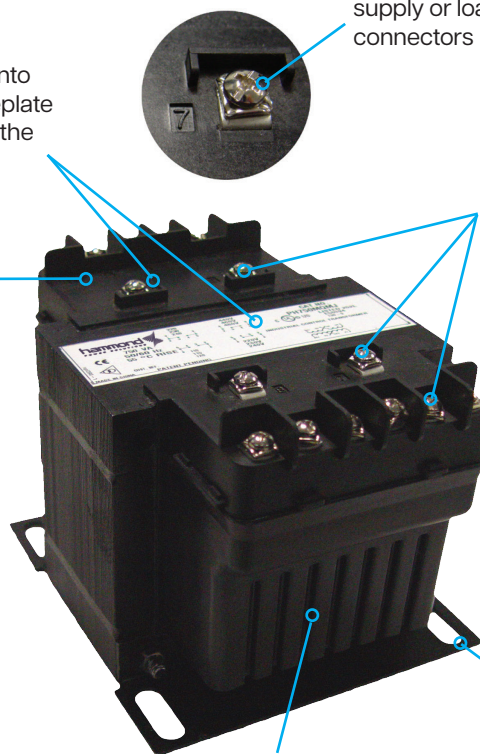
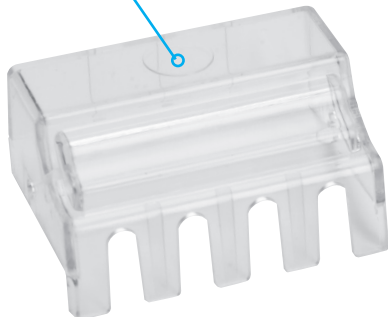
² Excluding PH750PG, PH1000PG, PH750MLI, PH1000MLI



Terminal connection numbers molded into terminal block and correspond to nameplate and wiring diagrams, make connecting the HPS Imperator quick and simple.

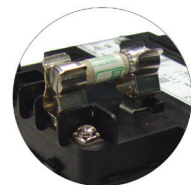
Innovative terminal block design provides for easy hook-up and installation of fuse clips.

Optional removable finger safe terminal covers available on all standard units.



SEMS washer allows for easy connection of supply or load wires with or without terminal connectors

Standard secondary and optional primary fuse kits utilizing 13/32" x 1 1/2" [10.3 x 38.1 mm] midget/type CC fuse clips provide an economical solution to your fusing requirements (fuses not supplied).



Custom injection molded coil cover with its unique "fin shaped" design combine superior cooling properties with a clean, bold look.

Made of heavy steel and welded or bolted to the core, these mounting feet provide superior strength in a compact design.

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP A

| PRIMARY VOLTAGE: | | | | 600 | 575 | 550 | 60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50AJ | A | 0.42/0.21 | 3.00 [72.20] | 3.81 [96.78] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.25 [133.35] | 2.7 [1.3] | PFK1 |
| 75 | PH75AJ | A | 0.63/0.31 | 3.25 [82.55] | 3.69 [93.73] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.13 [130.31] | 2.8 [1.3] | PFK1 |
| 100 | PH100AJ | A | 0.83/0.42 | 3.25 [82.55] | 4.06 [103.13] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.50 [139.70] | 4.1 [1.9] | PFK1 |
| 150 | PH150AJ | B | 1.25/0.63 | 4.00 [101.60] | 4.63 [117.61] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.13 [155.71] | 4.9 [2.3] | PFK2 |
| 250 | PH250AJ | B | 2.08/1.04 | 4.50 [114.30] | 5.25 [133.35] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.75 [171.45] | 7.0 [3.2] | PFK2 |
| 350 | PH350AJ | B | 2.92/1.46 | 4.50 [114.30] | 4.88 [123.96] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.38 [162.06] | 8.3 [3.8] | PFK3 |
| 500 | PH500AJ | B | 4.17/2.08 | 4.75 [120.65] | 5.56 [141.23] | 4.31 [109.48] | 4.06 [103.13] | 3.44 [87.38] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.06 [179.33] | 11.6 [5.3] | PFK3 |
| 750 | PH750AJ | B | 6.25/3.13 | 5.13 [130.31] | 6.38 [162.06] | 4.31 [109.48] | 4.38 [111.26] | 4.00 [101.60] | 0.31 x 0.81 [7.88 x 20.58] | 5.13 [130.31] | 7.88 [200.16] | 16.6 [7.5] | PFK3 |
| 1000 | PH1000AJ | B | 8.33/4.17 | 5.25 [133.35] | 6.50 [165.10] | 4.94 [125.48] | 4.50 [114.30] | 4.09 [103.89] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.00 [203.20] | 21.0 [9.5] | PFK3 |
| 1500 | PH1500AJ | B | 12.5/6.25 | 5.25 [133.35] | 7.56 [192.03] | 4.94 [125.48] | 4.50 [114.30] | 5.44 [138.18] | 0.38 x 1.00 [9.66 x 25.4] | 5.56 [141.23] | 9.06 [230.13] | 30.0 [13.5] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

GROUP B

| PRIMARY VOLTAGE: | | | | 600 | 575 | 550 | 60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|-----------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 12 X 24 | 11.5 X 23 | 11 X 22 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50AR | A | 4.17/2.08 | 3.00 [76.20] | 3.81 [96.78] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.25 [133.35] | 2.7 [1.3] | PFK1 |
| 75 | PH75AR | A | 6.25/3.13 | 3.25 [82.55] | 3.69 [93.73] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.13 [130.31] | 2.8 [1.3] | PFK1 |
| 100 | PH100AR | A | 8.33/4.17 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150AR | B | 12.5/6.25 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250AR | B | 20.8/10.4 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350AR | B | 29.2/14.6 | 4.50 [114.30] | 4.88 [123.96] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.38 [162.06] | 8.3 [3.8] | PFK3 |
| 500 | PH500AR | B | 41.7/20.8 | 4.75 [120.65] | 5.56 [141.23] | 4.31 [109.48] | 4.06 [103.13] | 3.44 [87.38] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.06 [179.33] | 11.6 [5.3] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied with transformers.
Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP C

| PRIMARY VOLTAGE: | | | | 240 X 480 | 230 X 460 | 220 X 440 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50MQMJ | A | 0.42/0.21 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK1 |
| 75 | PH75MQMJ | A | 0.63/0.31 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK1 |
| 100 | PH100MQMJ | A | 0.83/0.42 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150MQMJ | B | 1.25/0.63 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250MQMJ | B | 2.08/1.04 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350MQMJ | B | 2.92/1.46 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK3 |
| 500 | PH500MQMJ | B | 4.17/2.08 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK3 |
| 750 | PH750MQMJ | B | 6.25/3.13 | 5.13 [130.31] | 6.69 [169.93] | 4.31 [109.48] | 4.38 [111.26] | 4.31 [109.48] | 0.31 x 0.81 [7.88 x 20.58] | 5.13 [130.31] | 8.19 [208.03] | 16.6 [7.5] | PFK3 |
| 1000 | PH1000MQMJ | B | 8.33/4.17 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK3 |
| 1500 | PH1500MQMJ | B | 12.5/6.25 | 5.25 [133.35] | 8.19 [208.03] | 4.94 [125.48] | 4.50 [114.30] | 6.06 [153.93] | 0.38 x 1.00 [9.66 x 25.4] | 5.56 [141.23] | 9.69 [246.13] | 32.0 [14.4] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

GROUP D

| PRIMARY VOLTAGE: | | | | 240 X 480 | 230 X 460 | 220 X 440 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|-----------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 12 X 24 | 11.5 X 23 | 11 X 22 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50QR | A | 4.17/2.08 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK1 |
| 75 | PH75QR | A | 6.25/3.13 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK1 |
| 100 | PH100QR | A | 8.33/4.17 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150QR | B | 12.5/6.25 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250QR | B | 20.8/10.4 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350QR | B | 29.2/14.6 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK3 |
| 500 | PH500QR | B | 41.7/20.8 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied with transformers.
Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP E

| PRIMARY VOLTAGE: | | | | 208 X 416 | 200 X 400 | 190 X 380 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50SP | A | 0.42/0.21 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK1 |
| 75 | PH75SP | A | 0.63/0.31 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK1 |
| 100 | PH100SP | A | 0.83/0.42 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150SP | B | 1.25/0.63 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250SP | B | 2.08/1.04 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350SP | B | 2.92/1.46 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK3 |
| 500 | PH500SP | B | 4.17/2.08 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK3 |
| 750 | PH750SP | B | 6.25/3.13 | 5.13 [130.31] | 6.69 [169.93] | 4.31 [109.48] | 4.38 [111.26] | 4.31 [109.48] | 0.31 x 0.81 [7.88 x 20.58] | 5.01 [127.34] | 8.19 [208.03] | 16.6 [7.5] | PFK3 |
| 1000 | PH1000SP | B | 8.33/4.17 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

GROUP F

| PRIMARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50PP | A | 0.42/0.21 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK1 |
| 75 | PH75PP | A | 0.63/0.31 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK1 |
| 100 | PH100PP | A | 0.83/0.42 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150PP | B | 1.25/0.63 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250PP | B | 2.08/1.04 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350PP | B | 2.92/1.46 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK3 |
| 500 | PH500PP | B | 4.17/2.08 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK3 |
| 750 | PH750PP | B | 6.25/3.13 | 5.13 [130.31] | 6.69 [169.93] | 4.31 [109.48] | 4.38 [111.26] | 4.31 [109.48] | 0.31 x 0.81 [7.88 x 20.58] | 5.13 [130.31] | 8.19 [208.03] | 16.6 [7.5] | PFK3 |
| 1000 | PH1000PP | B | 8.33/4.17 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK3 |
| 1500 | PH1500PP | B | 12.5/6.25 | 5.25 [133.35] | 8.19 [208.03] | 4.94 [125.48] | 4.50 [114.30] | 6.06 [153.93] | 0.38 x 1.0 [9.66 x 25.4] | 5.56 [141.23] | 9.69 [246.13] | 32.0 [14.4] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied with transformers.
Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP G

| PRIMARY VOLTAGE: | | | | 120 X 240 | 115 X 230 | 110 X 220 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 12 X 24 | 11.5 X 23 | 11 X 22 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50PG | A | 4.17/2.08 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK1 |
| 75 | PH75PG | A | 6.25/3.13 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK1 |
| 100 | PH100PG | A | 8.33/4.17 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.63 [143.01] | 4.5 [2.1] | PFK1 |
| 150 | PH150PG | B | 12.5/6.25 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK2 |
| 250 | PH250PG | B | 20.8/10.4 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK2 |
| 350 | PH350PG | B | 29.2/14.6 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK3 |
| 500 | PH500PG | B | 41.7/20.8 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK3 |
| 750 | PH750PG | C | 62.5/31.3 | 5.25 [133.35] | 6.25 [158.75] | 4.94 [125.48] | 4.38 [111.26] | 4.31 [109.48] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 7.88 [200.16] | 16.6 [7.5] | PFK3 |
| 1000 | PH1000PG | C | 83.3/41.7 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK3 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

GROUP H

| PRIMARY VOLTAGE: | | | | 600/480/240 | 575/460/230 | 550/440/220 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120/100 | 115/95 | 110/90 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50MBMH | A | 0.43 | 3.25 [82.55] | 4.06 [103.13] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.50 [139.70] | 4.1 [1.9] | PFK5 |
| 75 | PH75MBMH | A | 0.65 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 5.63 [143.01] | 4.5 [2.1] | PFK5 |
| 100 | PH100MBMH | B | 0.87 | 4.00 [101.60] | 4.63 [117.61] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.25 [158.75] | 4.9 [2.3] | PFK6 |
| 150 | PH150MBMH | B | 1.30 | 4.00 [101.60] | 5.44 [138.18] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.6 [3.5] | PFK6 |
| 250 | PH250MBMH | B | 2.17 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK6 |
| 350 | PH350MBMH | B | 3.04 | 4.50 [114.30] | 5.56 [141.23] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 7.06 [179.33] | 11.0 [5.0] | PFK7 |
| 500 | PH500MBMH | B | 4.35 | 4.75 [120.65] | 6.69 [169.93] | 4.31 [109.48] | 4.06 [103.13] | 4.50 [114.30] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 8.19 [208.03] | 16.3 [7.4] | PFK7 |
| 750 | PH750MBMH | B | 6.52 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK7 |
| 1000 | PH1000MBMH | B | 8.70 | 5.30 [134.62] | 7.80 [198.12] | 4.90 [124.46] | 4.50 [114.30] | 6.11 [155.20] | 0.38 x 1.0 [9.66 x 25.4] | 5.60 [142.24] | 9.70 [246.38] | 31.2 [14.1] | PFK7 |
| 1500 | PH1500MBMH | B | 13.0 | 5.30 [134.62] | 8.19 [208.03] | 4.94 [125.48] | 4.50 [114.30] | 6.06 [153.93] | 0.38 x 1.0 [9.66 x 25.4] | 5.56 [141.23] | 9.69 [246.13] | 32.0 [14.4] | PFK7 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied with transformers.
Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP I

| PRIMARY VOLTAGE: | | | | 480/240 | 460/230/208 | 440/220/220 | 50/60 HZ | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 120/25 | 115/24 | 110/23 | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50MLI | A | 0.43/2.08 | 3.25 [82.55] | 4.06 [103.13] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.50 [139.70] | 4.0 [1.8] | PFK5 |
| 75 | PH75MLI | A | 0.65/3.13 | 3.25 [82.55] | 4.25 [107.95] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.69 [144.53] | 4.6 [2.1] | PFK5 |
| 100 | PH100MLI | A | 0.87/4.17 | 3.25 [82.55] | 4.69 [119.13] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 6.25 [158.75] | 5.2 [2.4] | PFK5 |
| 150 | PH150MLI | B | 1.30/6.25 | 4.00 [101.60] | 5.44 [138.18] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.6 [3.5] | PFK6 |
| 250 | PH250MLI | B | 2.17/10.42 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK6 |
| 350 | PH350MLI | B | 3.04/14.58 | 4.50 [114.30] | 5.56 [141.23] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 7.06 [179.33] | 11.0 [5.0] | PFK7 |
| 500 | PH500MLI | B | 4.35/20.83 | 4.75 [120.65] | 6.69 [169.93] | 4.31 [109.48] | 4.06 [103.13] | 4.50 [114.30] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 8.19 [208.03] | 16.3 [7.4] | PFK7 |
| 750 | PH750MLI | C | 6.52/31.25 | 5.25 [133.35] | 6.50 [165.10] | 4.94 [125.48] | 4.50 [114.30] | 4.13 [104.91] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 21.0 [9.5] | PFK7 |
| 1000 | PH1000MLI | C | 8.70/41.67 | 5.25 [133.35] | 8.19 [208.03] | 4.94 [125.48] | 4.50 [114.30] | 5.81 [147.58] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 9.69 [246.13] | 31.2 [14.1] | PFK7 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

GROUP J

| PRIMARY VOLTAGE: | | | | 415/400/380 | 50/60 HZ | | | | | | | | |
|--------------------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| SECONDARY VOLTAGE: | | | | 110 X 220 | | | | | | | | | |
| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50MEMX | A | 0.45/0.23 | 3.00 [76.20] | 4.38 [111.26] | 3.19 [81.03] | 2.50 [63.50] | 2.25 [57.15] | 0.22 x 0.44 [5.59 x 11.18] | 4.00 [101.60] | 5.82 [147.83] | 3.5 [1.6] | PFK4 |
| 75 | PH75MEMX | A | 0.68/0.34 | 3.25 [82.55] | 4.06 [103.13] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.50 [139.70] | 4.1 [1.9] | PFK5 |
| 100 | PH100MEMX | A | 0.91/0.45 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.63 [143.01] | 4.5 [2.1] | PFK5 |
| 150 | PH150MEMX | B | 1.36/0.68 | 4.00 [101.60] | 4.94 [125.48] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.44 [163.58] | 5.7 [2.6] | PFK6 |
| 250 | PH250MEMX | B | 2.27/1.14 | 4.50 [114.30] | 5.44 [138.18] | 3.81 [96.78] | 3.75 [95.25] | 3.13 [79.51] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.5 [3.4] | PFK6 |
| 350 | PH350MEMX | B | 3.18/1.59 | 4.50 [114.30] | 5.19 [131.83] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.69 [169.93] | 10.1 [4.6] | PFK7 |
| 500 | PH500MEMX | B | 4.55/2.27 | 4.75 [120.65] | 5.94 [150.88] | 4.31 [109.48] | 4.06 [103.13] | 3.81 [96.78] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 7.44 [188.98] | 14.2 [6.4] | PFK7 |
| 750 | PH750MEMX | B | 6.82/3.41 | 5.25 [133.35] | 6.50 [165.10] | 4.94 [125.48] | 4.50 [114.30] | 4.13 [104.91] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.00 [203.20] | 21.0 [9.5] | PFK7 |
| 1000 | PH1000MEMX | B | 9.09/4.55 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK7 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied with transformers.
Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

SELECTION TABLES

HPS IMPERATOR

Encapsulated Industrial Control Transformer

GROUP K

PRIMARY VOLTAGE:
SECONDARY VOLTAGE:

380/277/208

120 X 240

50/60 HZ

| VA Rating | Catalog Number | Mtg. Fig. | Output Amps | Overall Dimensions* | | | Mounting Centers* | | Mounting Slot* | Height with Finger Guard* | Depth with Finger Guard* | Approx. Ship Weight Lbs.* | Opt. Pri. Fuse Kit P/N |
|-----------|----------------|-----------|-------------|---------------------|------------------|------------------|-------------------|------------------|-------------------------------|---------------------------|--------------------------|---------------------------|------------------------|
| | | | | A | B | C | D | E | G X H | | | | |
| 50 | PH50MGJ | A | 0.42/0.21 | 3.25 [82.55] | 3.88 [98.56] | 3.56 [90.43] | 2.63 [66.81] | 2.50 [63.50] | 0.22 x 0.44 [5.59 x 11.18] | 4.37 [111.00] | 5.32 [135.13] | 3.5 [1.6] | PFK5 |
| 75 | PH75MGJ | A | 0.63/0.31 | 3.25 [82.55] | 4.19 [106.43] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.44 [112.78] | 5.63 [143.01] | 4.5 [2.1] | PFK5 |
| 100 | PH100MGJ | A | 0.83/0.42 | 3.25 [82.55] | 4.69 [119.13] | 3.63 [92.21] | 2.63 [66.81] | 2.63 [66.81] | 0.22 x 0.44 [5.59 x 11.18] | 4.50 [114.30] | 6.13 [155.71] | 5.2 [2.4] | PFK5 |
| 150 | PH150MGJ | B | 1.25/0.63 | 4.00 [101.60] | 5.44 [138.18] | 3.81 [96.78] | 3.38 [85.86] | 2.75 [69.85] | 0.22 x 0.75 [5.59 x 19.05] | 4.50 [114.30] | 6.94 [176.28] | 7.6 [3.5] | PFK6 |
| 250 | PH250MGJ | B | 2.08/1.04 | 4.50 [114.30] | 4.88 [123.96] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 6.38 [162.06] | 8.3 [3.8] | PFK6 |
| 350 | PH350MGJ | B | 2.92/1.46 | 4.50 [114.30] | 5.56 [141.23] | 4.44 [112.78] | 3.75 [95.25] | 3.75 [95.25] | 0.22 x 0.75 [5.59 x 19.05] | 5.18 [131.58] | 7.06 [179.33] | 11.0 [5.0] | PFK7 |
| 500 | PH500MGJ | B | 4.17/2.08 | 4.75 [120.65] | 6.69 [169.93] | 4.31 [109.48] | 4.06 [103.13] | 4.50 [114.30] | 0.31 x 0.94 [7.88 x 23.88] | 5.13 [130.31] | 8.19 [208.03] | 16.3 [7.4] | PFK7 |
| 750 | PH750MGJ | B | 6.25/3.13 | 5.25 [133.35] | 6.81 [172.98] | 4.94 [125.48] | 4.50 [114.30] | 4.44 [112.78] | 0.31 x 0.81 [7.88 x 20.58] | 5.56 [141.23] | 8.31 [211.08] | 23.6 [10.7] | PFK7 |
| 1000 | PH1000MGJ | B | 8.33/4.17 | 5.25 [133.35] | 7.25 [184.15] | 4.94 [125.48] | 4.50 [114.30] | 4.83 [122.69] | 0.31 x 0.81 [7.88 x 20.58] | 5.44 [138.18] | 8.75 [222.25] | 25.5 [11.5] | PFK7 |

*Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers.

Please refer to page 11 for dimensional drawings. Special voltages and VA sizes available upon request.

*Dimensions in Inches [mm]
Weight in Lbs. [kg]

Accessory Kits Available

Standard Secondary Fuse Kits

All HPS Emperor control transformers are supplied with standard secondary fuse kits which include: 13/32" x 1 1/2" midget/type CC fuse clips, fuse clip mounting screws, primary and secondary voltage links and the PHAK1 instruction sheet (note: secondary fuse clips and fuse clip mounting screws not supplied on the PH750PG, PH1000PG, PH750MLI and PH1000MLI). Please consult the HPS Transformer Products catalog for additional details.

Optional Primary Fuse Kits

| Kit Part Number | Transformer Part Number Suffix's | VA Sizes | Parts Included in Kit |
|-----------------|---|---|--|
| PFK1 | Refer to Specification Tables on pages 4 to 7 | Refer to Specification Tables on pages 4 to 7 | 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet |
| PFK2 | | | 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet |
| PFK3 | | | 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet |
| PFK4 | | | 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet |
| PFK5 | | | 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet |
| PFK6 | | | 4 fuse clips, 4 mtg. screws, 1 jumper wire, PHAK1 instruction sheet |
| PFK7 | | | 4 fuse clips, 4 mtg. screws, 1 jumper wire, PHAK1 instruction sheet |

Note: Maximum allowable current rating on all primary and secondary fuse kits is 30 amps.

Factory Installed Primary and Secondary Fuse Kits

HPS now stocks some HPS Imperator series voltage groups with FACTORY INSTALLED primary and secondary fuse clips. To order, just add the suffix “-FK” to the end of the standard part number.

Factory installed primary and secondary fuse clips are only available on the following voltage groups:

Group C (p/n: PH*MQMJ-FK) | Group G (p/n: PH***PG-FK) | Group I (p/n: PH***MLI-FK)**

On PH750PG-FK, PH1000PG-FK, PH750MLI-FK, and PH1000MLI-FK, only primary fuse clips are included on factory installed units. Secondary fuse clips are not included or available on these units.

Note: All factory installed fuse kits are pre-wired at the transformers highest primary voltage and the lowest secondary voltage. To hook up at a different primary or secondary voltage, please refer to the wiring instruction sheet included with the transformer.

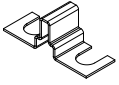
Optional Unfused Finger Guard Kits

| Kit Part Number | Transformer Part Number Suffix's | VA Sizes | Parts Included in Kit |
|--------------------------------|------------------------------------|-------------|---|
| FG1 | AJ, AR, MQMJ, MEMX, QR, SP, PG, PP | 50 | 1 finger guard (unfused), PHAK1 instruction sheet |
| FG2 | MBMH, MGJ, MLI | 50 | 1 finger guard (unfused), PHAK1 instruction sheet |
| FG2 | All | 75 | 1 finger guard (unfused), PHAK1 instruction sheet |
| FG2 | All (excluding PH100MBMH) | 100 | 1 finger guard (unfused), PHAK1 instruction sheet |
| Refer to FG3, FG4 or FG5 below | | 150 to 1500 | |

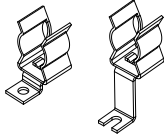
Optional Fused Finger Guard Kits

| Kit Part Number | Transformer Part Number Suffix's | VA Sizes | Parts Included in Kit |
|-----------------|------------------------------------|------------|---|
| FGF1 | AJ, AR, MQMJ, MEMX, QR, SP, PG, PP | 50 | 1 finger guard (fused), PHAK1 instruction sheet |
| FGF2 | MBMH, MGJ, MLI | 50 | 1 finger guard (fused), PHAK1 instruction sheet |
| FGF2 | All | 75 | 1 finger guard (fused), PHAK1 instruction sheet |
| FGF2 | All (excluding PH100MBMH) | 100 | 1 finger guard (fused), PHAK1 instruction sheet |
| FG3 | MBMH | 100 | 1 finger guard, PHAK1 instruction sheet |
| FG3 | All | 150 | 1 finger guard, PHAK1 instruction sheet |
| FG3 | AJ, AR, MQMJ, MEMX, QR, SP, PG, PP | 250 | 1 finger guard, PHAK1 instruction sheet |
| FG4 | MBMH, MGJ, MLI | 250 | 1 finger guard, PHAK1 instruction sheet |
| FG4 | All | 350, 500 | 1 finger guard, PHAK1 instruction sheet |
| FG4 | AJ, AR, MQMJ, QR, SP, PP | 750 | 1 finger guard, PHAK1 instruction sheet |
| FG5 | MBMH, MEMX, MGJ, MLI, PG | 750 | 1 finger guard, PHAK1 instruction sheet |
| FG5 | All | 1000, 1500 | 1 finger guard, PHAK1 instruction sheet |

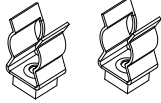
Sample Accessory Drawings



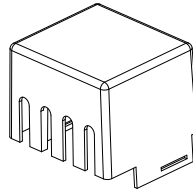
Voltage Link



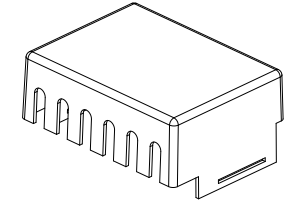
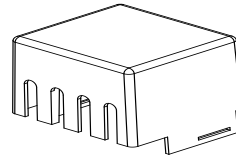
Fuse Clips
(For 50, 75 and 100VA)



Fuse Clips
(For 150VA to 1500VA)

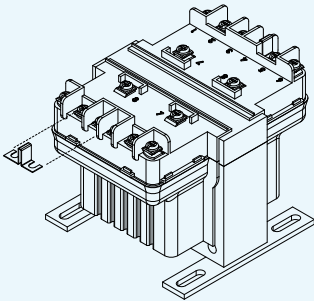


Fused & Unfused Finger Guard
(For 50, 75 and 100VA)

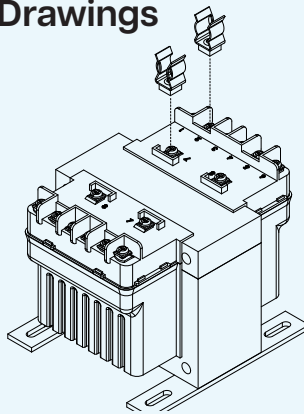


Finger Guard
(For 150VA to 1500VA)

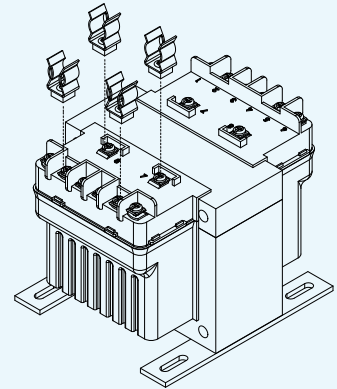
Sample Accessory Assembly Drawings



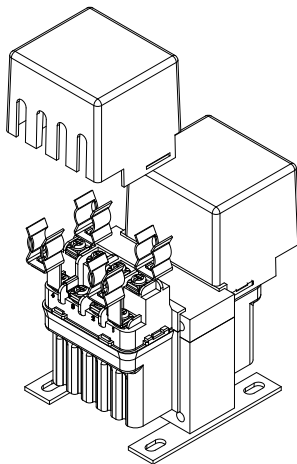
**Sample Assembly Drawing for
Voltage Link Installation**



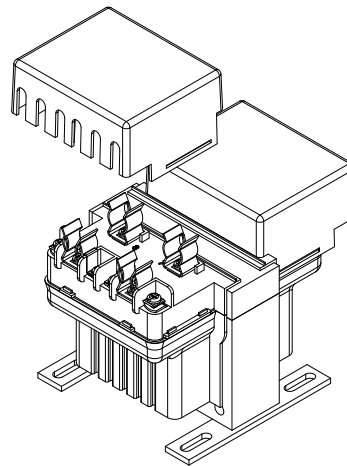
**Sample Assembly Drawing for
Secondary Fuse Clip Installation**
(For 150VA to 1500VA)



**Sample Assembly Drawing for
Primary Fuse Clip Installation**
(For 150VA to 1500VA)



**Sample Assembly Drawing for
Finger Guard Installation**
(For 50, 75 and 100VA)



**Sample Assembly Drawing for
Finger Guard Installation**
(For 150VA to 1500VA)

Overcurrent Protection

Secondary

The overcurrent protection listed below, in amperes, is 125% of the rated current of the transformer. Choose the next higher fuse rating if these numbers do not correspond with standard fuse selections.

| Sec. Voltage | VA Rating | | | | | | | | | | | | | | | |
|--------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 5000 |
| 12 | 2.7 | 5.3 | 7.9 | 11 | 16 | 21 | 27 | - | - | - | - | - | - | - | - | - |
| 24 | 1.4 | 2.7 | 4.0 | 5.3 | 7.9 | 11 | 14 | 16 | 19 | 27 | - | - | - | - | - | - |
| 90 | 0.4 | 0.7 | 1.1 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 7.0 | 11 | 14 | 21 | 28 | - | - |
| 95 | 0.4 | 0.7 | 1.0 | 1.4 | 2.0 | 2.7 | 3.3 | 4.0 | 4.7 | 6.6 | 9.9 | 14 | 20 | 27 | - | - |
| 100 | 0.4 | 0.7 | 1.0 | 1.3 | 1.9 | 2.5 | 3.2 | 3.8 | 4.4 | 6.3 | 9.4 | 13 | 19 | 25 | - | - |
| 110 | 0.3 | 0.6 | 0.9 | 1.2 | 1.8 | 2.3 | 2.9 | 3.5 | 4.0 | 5.7 | 8.6 | 12 | 18 | 23 | - | - |
| 115 | 0.3 | 0.6 | 0.9 | 1.1 | 1.7 | 2.2 | 2.8 | 3.3 | 3.9 | 5.5 | 8.2 | 11 | 17 | 22 | - | - |
| 120 | 0.3 | 0.6 | 0.8 | 1.1 | 1.6 | 2.1 | 2.7 | 3.2 | 3.7 | 5.3 | 7.9 | 11 | 16 | 21 | - | - |
| 220 | 0.15 | 0.3 | 0.5 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.0 | 2.9 | 4.3 | 5.7 | 8.6 | 12 | 18 | 29 |
| 230 | 0.14 | 0.3 | 0.5 | 0.6 | 0.9 | 1.1 | 1.4 | 1.7 | 2.0 | 2.8 | 4.1 | 5.5 | 8.2 | 11 | 17 | 28 |
| 240 | 0.14 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.4 | 1.6 | 1.9 | 2.7 | 4.0 | 5.3 | 7.9 | 11 | 16 | 27 |

Primary

To assist in the selection of fuses, the following chart suggests the maximum primary fuse rating in amperes. The number shown is the maximum overcurrent protection when the primary current is less than 2 amps and the overcurrent protection device is rated for 300%. Choose the next higher fuse rating if these numbers do not correspond with standard fuse selections.

| Pri. Voltage | VA Rating | | | | | | | | | | | | | | | | |
|--------------|-----------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 25 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 5000 | 7500 |
| 115 | 0.6 | 1.25 | 1.8 | 2.5 | 3.5 | 5 | 4 | 5 | 5 | 8 | 10 | 15 | 20 | 25 | - | - | - |
| 120 | 0.6 | 1.25 | 1.8 | 2.25 | 3.5 | 5 | 4 | 5 | 5 | 8 | 10 | 15 | 15 | 20 | - | - | - |
| 200 | 0.3 | 0.75 | 1.125 | 1.5 | 2.25 | 3 | 3.5 | 4.5 | 5 | 4.5 | 7 | 9 | 15 | 15 | 20 | - | - |
| 208 | 0.3 | 0.6 | 1 | 1.4 | 2 | 2.8 | 3.5 | 4 | 5 | 4 | 6 | 8 | 12 | 15 | 20 | 30 | - |
| 220 | 0.3 | 0.6 | 1 | 1.25 | 2 | 2.5 | 3.2 | 4 | 4.5 | 4 | 6 | 8 | 12 | 15 | 20 | 30 | - |
| 230 | 0.3 | 0.6 | 0.8 | 1.25 | 1.8 | 2.5 | 3.2 | 3.5 | 4.5 | 4 | 6 | 8 | 10 | 15 | 20 | 30 | - |
| 240 | 0.3 | 0.6 | 0.8 | 1.25 | 1.8 | 2.25 | 3 | 3.5 | 4 | 3.5 | 5 | 7 | 10 | 15 | 15 | 30 | - |
| 277 | 0.25 | 0.5 | 0.8 | 1 | 1.6 | 2 | 2.5 | 3.2 | 3.5 | 5 | 5 | 6 | 9 | 12 | 15 | 25 | - |
| 347 | 0.25 | 0.5 | 0.8 | 1 | 1.6 | 2 | 2.5 | 3.2 | 3.5 | 5 | 6.25 | 5 | 7.5 | 10 | 15 | 20 | 30 |
| 380 | 0.1875 | 0.3 | 0.5 | 0.75 | 1.125 | 1.5 | 1.8 | 2.25 | 2.5 | 3.5 | 5.6 | 4.5 | 6.25 | 9 | 15 | 20 | 25 |
| 400 | 0.1875 | 0.3 | 0.5 | 0.75 | 1.125 | 1.5 | 1.8 | 2.25 | 2.5 | 3.5 | 5.6 | 4.5 | 6.25 | 9 | 12 | 15 | 20 |
| 416 | 0.15 | 0.3 | 0.5 | 0.6 | 1 | 1.4 | 1.8 | 2 | 2.5 | 3.5 | 5 | 4 | 6 | 8 | 12 | 15 | 20 |
| 440 | 0.15 | 0.3 | 0.5 | 0.6 | 1 | 1.25 | 1.6 | 2 | 2.25 | 3.2 | 5 | 4 | 6 | 8 | 12 | 15 | 20 |
| 460 | 0.15 | 0.3 | 0.4 | 0.6 | 0.8 | 1.25 | 1.6 | 1.8 | 2.25 | 3.2 | 4.5 | 3.5 | 6 | 8 | 12 | 15 | 20 |
| 480 | 0.15 | 0.3 | 0.4 | 0.6 | 0.8 | 1.25 | 1.5 | 1.8 | 2 | 3 | 4.5 | 3.5 | 5 | 7 | 10 | 15 | 20 |
| 550 | 0.125 | 0.25 | 0.4 | 0.5 | 0.8 | 1 | 1.25 | 1.6 | 1.8 | 2.5 | 4 | 5 | 4.5 | 6 | 9 | 15 | 15 |
| 575 | 0.125 | 0.25 | 0.3 | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 1.8 | 2.5 | 3.5 | 5 | 4.5 | 6 | 9 | 15 | 15 |
| 600 | 0.125 | 0.2 | 0.3 | 0.5 | 0.75 | 0.8 | 1.25 | 1.5 | 1.6 | 2.25 | 3.5 | 5 | 4 | 6 | 9 | 15 | 15 |

Dimensional Drawings

Some actual transformer units may differ from dimensional drawings shown below.

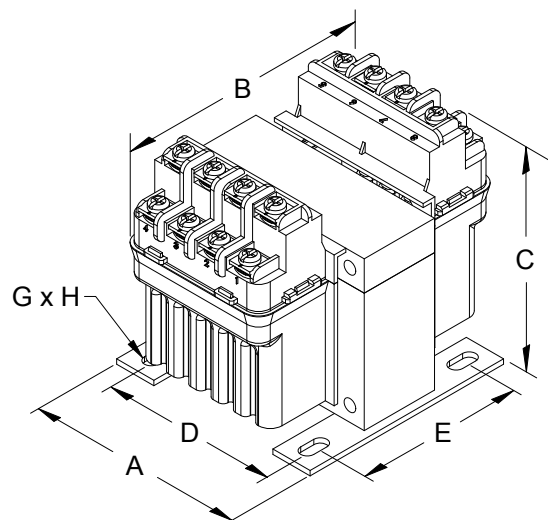


FIGURE A (100 VA and less)

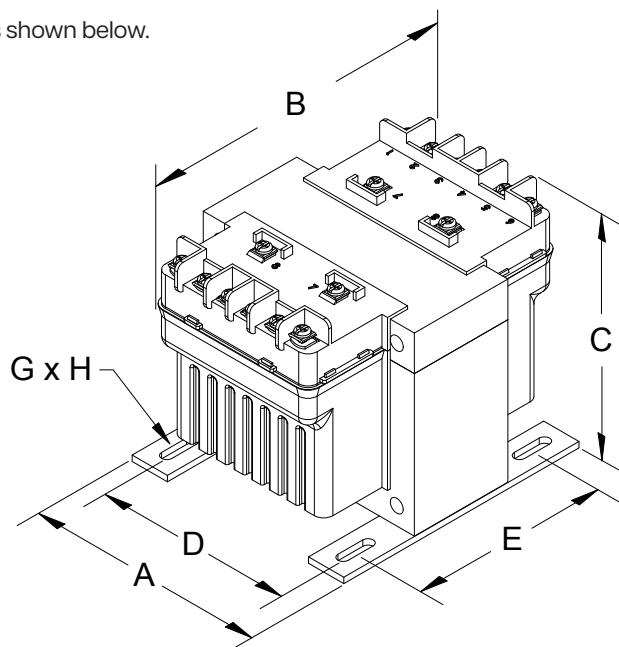


FIGURE B (150 VA to 1500 VA)

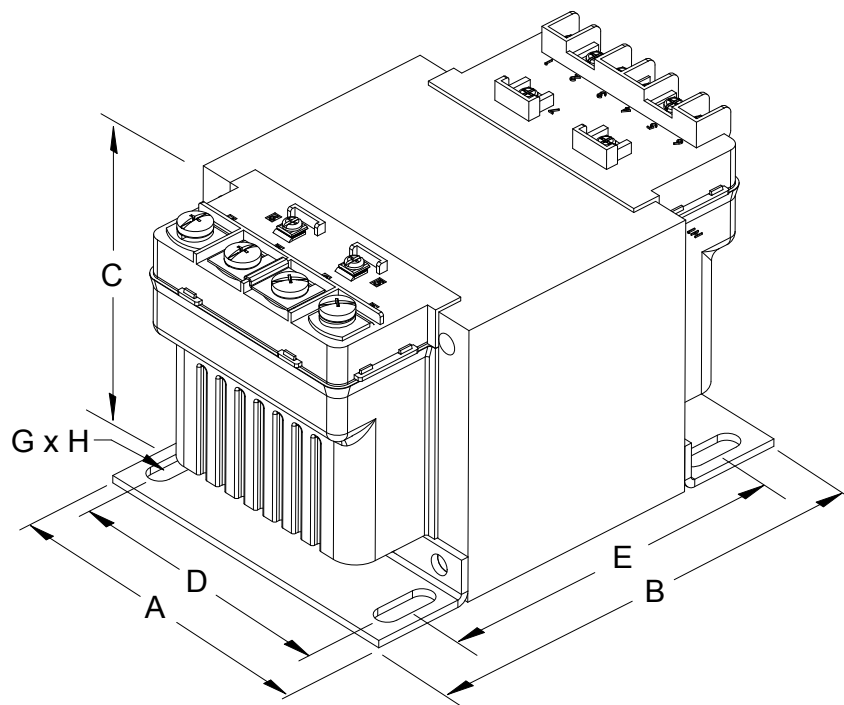


FIGURE C (For PH750PG, PH1000PG, PH750MLI & PH1000MLI)



HPS TruWave™ Active Harmonic Filter

HPS TruWave™ Active Harmonic Filter (AHF) is a comprehensive and flexible solution for harmonic mitigation. It provides advanced control and proven reliability that your facility needs to solve harmonic problems generated by non-linear loads such as variable frequency drives.

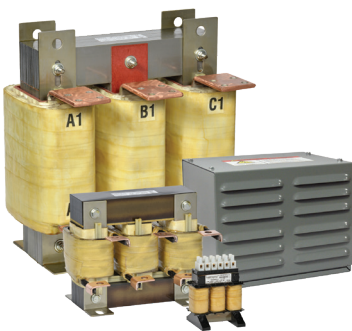
The AHF monitors load current and quickly responds to power system distortion as it develops. The AHF injects a corrective current to effectively cancel out harmonics produced by three phase non-linear loads. The result is a reduction in harmonic distortion to below 5%, complying with the IEEE-519 recommendations.



HPS Centurion™ P Passive Harmonic Filter

HPS Centurion™ P passive harmonic filter is specifically engineered to mitigate harmonic currents created by non-linear loads. It is currently available from 5 to 500 horsepower and it improves power quality by simultaneously reducing harmonics and improving true power factor. The advanced HPS design delivers superior performance compared to a traditional harmonic filter by reducing harmonic current distortion to less than 5%, corrects true power factor to over 95%, and meets IEEE 519 harmonic requirements.

HPS Centurion P consists of reactors and capacitors in an LCL arrangement designed to reduce a broad range of harmonics associated with variable frequency drives and other three phase rectifiers.



HPS Centurion™ R Reactor

The HPS Centurion™ R reactor provides a U.L. listed solution to many common drive issues.

Line reactor benefits:

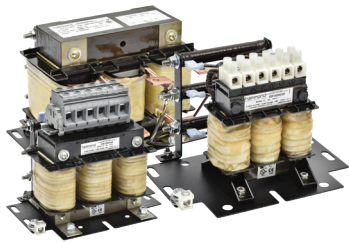
- › Minimizes harmonic current
- › Attenuates voltage and current harmonics to reduce voltage notching
- › Improves True Power Factor by reducing overall current distortion
- › Mitigates drive nuisance tripping by attenuating voltage transients from sources such as PFCC, utility switching and lightning

When coordinated with a HPS TruWave Active Harmonic Filter, the system can reduce harmonics from variable frequency drives to under 5% THD.

Load reactor benefits:

- › Reduces the motor's operating temperature & audible noise
- › Mitigates motor bearing failures and insulation damage as a result of the reflected wave phenomenon
- › Enhances the overall performance and life expectancy of the motor





dV/dT Filter

The HPS dV/dT filter provides protection for motors by slowing the rate of voltage increase and minimizing the peak voltage that occurs at the motor's terminals and along the cables feeding the motor.

It does this by combining the harmonic current limiting ability of an AC line reactor plus a resistive capacitance circuit that forms a damped, low pass filter.

HPS dV/dT filters are specifically designed for drive/motor applications with long lead lengths (usually where the motor cable length is 100 feet and greater).



Energy Efficient Drive Isolation Transformers

HPS Tribune™ drive isolation transformers are suitable for both AC and DC variable speed drives. They are sized to match standard motor horsepower and voltage ratings.

Standard features include:

- › Meets NRCAN 2019
- › Three phase ratings from 7 kVA to 660 kVA
- › Available in aluminum, copper and optional shield
- › UL Listed and CSA Certified
- › Type 3R enclosure (optional Type 4, 12 or stainless)

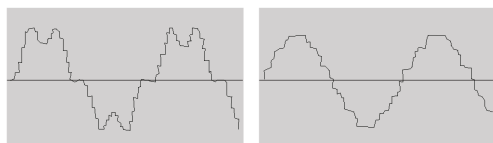


HPS Multi-Pulse Transformer

Multi-Pulse transformers are designed specifically for harmonics, voltage distortion and other unique characteristics associated with individual manufacturer's drive systems. They provide the required supply voltage with the desired phase angle between secondary voltages for VFD systems/converters.

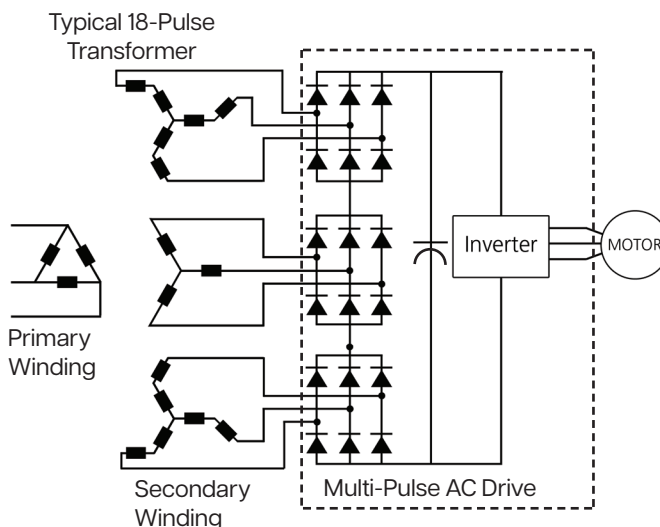
- › HPS has significant experience with 18, 24, 36, 48 pulse drive/inverter duty transformers and auto-transformers in both low and medium voltage applications.

Typical Drive Current Waveforms



6 Pulse Rectifier

18 Pulse Rectifier





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