Hammond Power Solutions Inc.



Machine Tool Industrial Control Transformers



The HPS Imperator[™] series of machine tool rated industrial control transformers are specifcally designed to meet high inrush industrial applications where electromagnetic components such as relays, solenoids and magnetic motor starters are used.

With **11 standard voltage groups**, a VA range from **50VA to 5000VA** and available with **standard secondary and optional primary fuse kits**, the HPS Imperator™ series provides the perfect solution for any application.

The HPS Imperator's unique terminal block design (patent pending) allows for the quick and easy installation of standard secondary or optional primary13/32" 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.

Key features:

- 600V class, machine tool 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 up to 50 to 50001
- Standard SEMS washers supplied on all units up to and including 1500VA²
- UL listed
- CE Mark standard onall molded units up to and including 1500VA
- RoHS compliant
- LIFETIME Warranty (Limited)

For more information, click one of the links below:

- HPS Imperator Brochure (ENCCON Control Brochure)
- <u>HPS Imperator Catalog Information</u> (HTP-08 Catalog Sec. 1)
- <u>HPS Imperator Wiring Instructions</u> (PHWD1-2 Wiring Instructions)
- <u>HPS Imperator Wiring Instructions French</u> (PHWD1-2 Wiring Instructions)
- HPS Imperator Typical Specification (SPS 19, Rev 01)

¹ special voltage and VA sizes available upon request

² excluding PH750PH, PH1000PG, PH750MLI, PH1000MLI

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HPS IMPERATOR™

SECTION 1

FEATURES & **B**ENEFITS

- 600V class, machine tool 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 to 50001
- Superior insulation system
 - 50-150VA, temperature rise 55°C, insulation class 105°C
 - 250-1500VA, temperature rise 80°C, insulation class 130°C
 - 2000-5000VA, temperature rise 115°C, insulation class 180°C
- Constructed with high quality silicon steel laminations that provide optimum performance and reliability
- Encapsulated coils (up to and including 1500VA) encased in a custom injection molded cover, protects 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/Philips #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 units up to and including 1500VA²
- Standard secondary fuse kits -utilizing 13/32" x 1 1/2" midget/type CC fuse clips (supplied with all standard units up to and including 1500VA)
- Optional primary fuse kits available utilizing 13/32" x 1 1/2" midget/type CC fuse Clips (available on all standard units up to and including 1500VA)
- Optional finger safe terminal covers available on all units up to and including 1500VA
- UL Listed (approved for U.S. and Canada)

AANNAR

- CE Mark standard on all molded units up to and including 1500VA (excluding PH***AJ & PH***AR)
- LIFETIME Warranty (Limited)
- RoHS Compliant
- special voltages and VA sizes available upon request
 excluding PH750PG, PH1000PG, PH750MLI, PH1000MLI

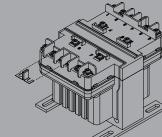
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SECTION 1

FEATURES & BENEFITS CONTINUED

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

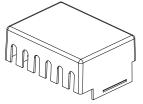
Standard secondary and optional primary fuse kits utilizing 13/32" x 1 1/2" midget/type CC fuse clips provide an economical solution to your fusing requirements (fuses not available).

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



SECTION 1

Optional removable finger safe terminal covers available on all units up to and including 1500VA.



Custom injection molded coil cover with its unique "fin shaped" design combines 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.



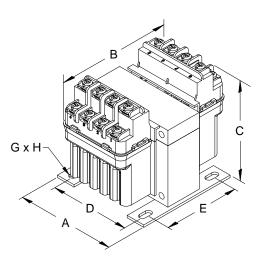
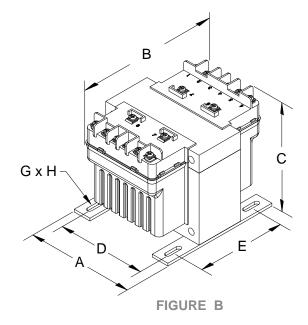


FIGURE A



Group G

Primary Voltage:	120 x 240	115 x 230	110 x 220	$(\boldsymbol{\epsilon})$	50/60 Hertz
Secondary Voltage:	12 x 24	11.5 x 23	11 x 22		50/60 Hertz

VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions		Mounting Centers		Mounting Slot	Height with	Depth with	Approx. Ship	Optional Primary	
				А	В	С	D	E	GXH	Finger Guard	Finger Guard	Weight Lbs.	Fuse Kit P/N
50	PH50PG	А	4.17/2.08	3.00	4.38	3.19	2.50	2.25	0.22 x 0.44	4.00	5.82	3.50	PFK1
75	PH75PG	А	6.25/3.13	3.25	3.88	3.56	2.63	2.50	0.22 x 0.44	4.37	5.32	3.54	PFK1
100	PH100PG	А	8.33/4.17	3.25	4.19	3.63	2.63	2.63	0.22 x 0.44	4.44	5.63	4.50	PFK1
150	PH150PG	В	12.5/6.25	4.00	4.94	3.81	3.38	2.75	0.22 x 0.75	4.50	6.44	5.70	PFK2
250	PH250PG	В	20.8/10.4	4.50	5.44	3.81	3.75	3.13	0.22 x 0.75	4.50	6.94	7.50	PFK2
350	PH350PG	В	29.2/14.6	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	4.94	6.69	10.1	PFK3
500	PH500PG	В	41.7/20.8	4.75	5.94	4.31	4.06	3.81	0.31 x 0.94	4.81	7.44	14.2	PFK3
750	PH750PG	В	62.5/31.3	5.13	6.69	4.31	4.38	4.31	0.31 x 0.81	4.81	8.19	16.6	PFK3
1000	PH1000PG	В	83.3/41.7	5.25	6.81	4.94	4.50	4.44	0.31 x 0.81	5.56	8.31	23.6	PFK3
Secondary fuse clips and fuse clip mounting screws supplied standard with transformers up to and including 500VA.										All dimensions in inches			

Secondary fuse clips and fuse clip mounting screws supplied standard with transformers up to and including 500VA.

Primary and secondary voltage links/jumpers supplied standard with transformers up to and including 1000VA. Refer to page 58 for wiring schematic drawing. Special voltages and VA sizes available upon request. *** Available with FACTORY INSTALLED Primary and Secondary Fuse Kits up to 1500VA. To order,add the suffix "-FK" to the abover part number. Refer to page 49 for details. ***

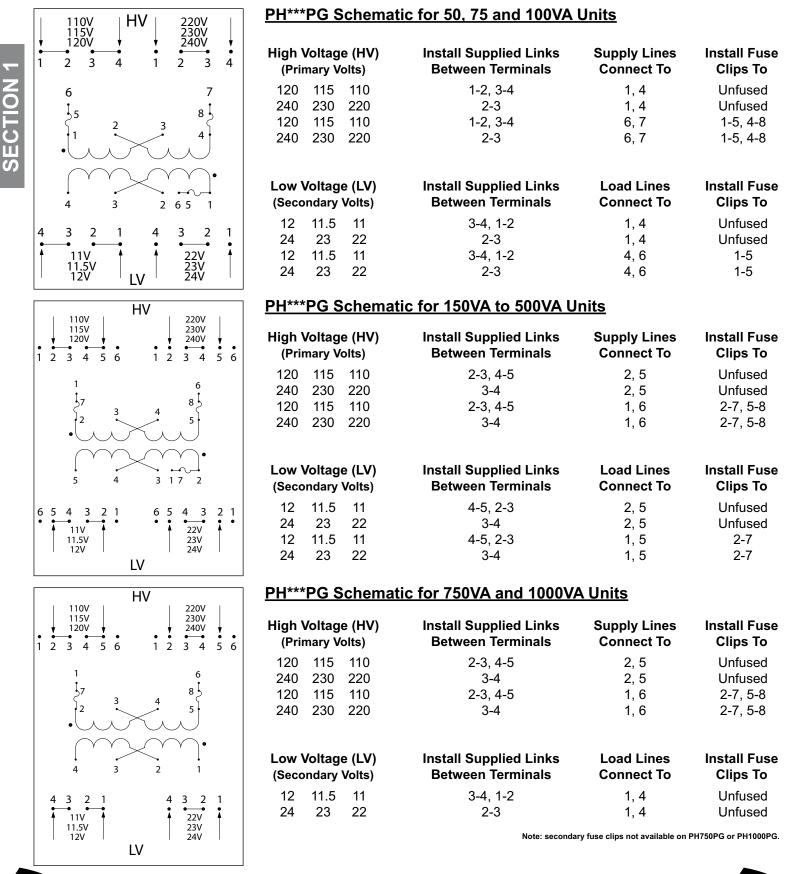




SECTION 1

HPS IMPERATOR Series - Wiring Schematic Drawings continued

Group G



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