

FIGURE C

Group G

Primary Voltage: 110 X 220 120 X 240 115 X 230 **Secondary Voltage:** 12 X 24 11.5 X 23 11 X 22

VA	Catalog	Mtg.	Output Amps	Overall Dimensions		Mounting Centers		Mounting Slot	Height with	Depth with	Approx. Ship	Optional Primary	Optional Unfused and	
Rating	Number	Fig.		A	В	U	D	E	GXH	Finger Guard	Finger Guard	Weight Lbs.	Fuse Kit P/N	Fused Finger Guard Kit P/N
50	PH50PG	Α	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	FG1*/FGF1
75	PH75PG	Α	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	FG2*/FGF2
100	PH100PG	Α	8.33/4.17	3.25	4.19	3.63	2.63	2.63	0.22 x 0.44	4.50	5.63	4.50	PFK1	FG2*/FGF2
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	FG3
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	FG3
350	PH350PG	В	29.2/14.6	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	5.18	6.69	10.1	PFK3	FG4
500	PH500PG	В	41.7/20.8	4.75	5.94	4.31	4.06	3.81	0.31 x 0.94	5.13	7.44	14.2	PFK3	FG4
750	PH750PG	С	62.5/31.3	5.25	6.25	4.94	4.38	4.31	0.31 x 0.81	5.56	7.88	16.6	PFK3	FG5
1000	PH1000PG	С	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	FG5

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.

All dimensions in inches

Group H

575/460/230 | 550/440/220 c Us C E 50/60 Hertz **Primary Voltage:** 600/480/240 || **Secondary Voltage:** 120/100

VA	Catalog	Mtg.	Output Amps	Overall Dimensions		Mounting Centers		Mounting Slot	Height with	Depth with	Approx. Ship	Optional Primary	Optional Unfused and	
Rating	Number	Fig.		Α	В	С	D	E	GXH	Finger Guard	Finger Guard	Weight Lbs.	Fuse Kit P/N	Fused Finger Guard Kit P/N
50	РН50МВМН	Α	0.43	3.25	4.06	3.63	2.63	2.63	0.22 x 0.44	4.50	5.50	4.10	PFK5	FG2*/FGF2
75	РН75МВМН	Α	0.65	3.25	4.19	3.63	2.63	2.63	0.22 x 0.44	4.50	5.63	4.50	PFK5	FG2*/FGF2
100	РН100МВМН	В	0.87	4.00	4.63	3.81	3.38	2.75	0.22 x 0.75	4.50	6.25	4.90	PFK6	FG3
150	РН150МВМН	В	1.30	4.00	5.44	3.81	3.38	2.75	0.22 x 0.75	4.50	6.94	7.60	PFK6	FG3
250	РН250МВМН	В	2.17	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	5.18	6.69	10.1	PFK6	FG4
350	РН350МВМН	В	3.04	4.50	5.56	4.44	3.75	3.75	0.22 x 0.75	5.18	7.06	11.0	PFK7	FG4
500	РН500МВМН	В	4.35	4.75	6.69	4.31	4.06	4.50	0.31 x 0.94	5.13	8.19	16.3	PFK7	FG4
750	РН750МВМН	В	6.52	5.25	6.81	4.94	4.50	4.44	0.31 x 0.81	5.56	8.31	23.6	PFK7	FG5
1000	РН1000МВМН	В	8.70	5.25	8.19	4.94	4.50	5.81	0.31 x 0.81	5.56	9.69	31.2	PFK7	FG5
1500	РН1500МВМН	В	13.0	5.25	8.19	4.94	4.50	6.06	0.38 x 1.0	5.56	9.69	32.0	PFK7	FG5

Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers. *Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43. Refer to page 70 for wiring schematic drawing. Custom voltage and VA sizes available upon request.

All dimensions in inches





^{*}Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43.

Refer to page 69 for wiring schematic drawing. Custom voltages and VA sizes available upon request.

*** Available with FACTORY INSTALLED Primary and Secondary Fuse Kits up to 1000VA. To order, add the suffix "-FK" to the above part number. Refer to page 42 for details. ***

Field Installed Fuse Kits

Standard Secondary Fuse Kits (Field Installed)

All HPS Imperator 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 are not supplied on the PH750PG, PH1000PG, PH750MLI, and PH1000MLI).

Optional Primary Fuse Kits (Field Installed)

All HPS Imperator series machine tool industrial control transformers up to and including 1500VA are available with the following optional primary fuse kits:

Kit Part Number	Applicable Transformer Part Number Suffix's	Applicable VA Sizes	Parts Included in Kit
PFK1 PFK2 PFK3 PFK4 PFK5 PFK6 PFK7	Refer to Spe Tables on Pages Optional Primary	36 to 41 for	4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper wire, PHAK1 instruction sheet 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 Fuse Kits

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.

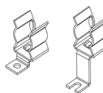
Factory installed fusing only available on units up to 1500VA. The voltage groups that are stocked are:

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.

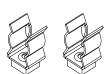
Other voltage groups available with factory installed fuse kits. Please contact your HPS sales or customer service representative for details.

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.



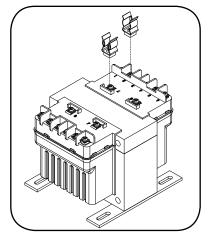
Sample Accessory Drawing for Fuse Clips

(for 50, 75 and 100VA)



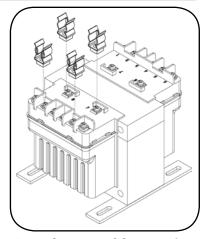
Sample Accessory Drawing for Fuse Clips

(for 150VA to 1500VA)



Sample Assembly Drawing for Secondary Fuse Clip Installation

(For 150VA to 1500VA)



Sample Assembly Drawing for Primary Fuse Clip Installation

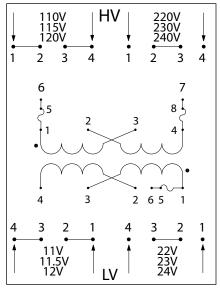
(For 150VA to 1500VA)

Note: HPS Imperator primary and secondary fuse kits are not suitable for branch circuit applications!



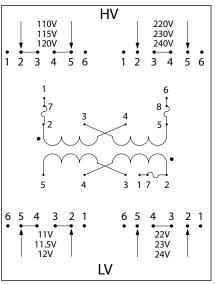
HPS Imperator - Wiring Schematic Drawings continued

Group G



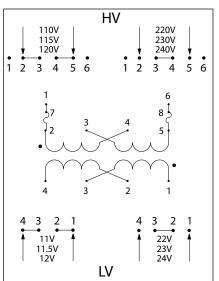
PH***PG Schematic for 50, 75 and 100VA Units

_	Voltag mary V		Install Supplied Links Between Terminals	Supply Lines Connect To	Install Fuse Clips To
120	115	110	1-2, 3-4	1, 4	Unfused
240	230	220	2-3	1, 4	Unfused
120	115	110	1-2, 3-4	6, 7	1-5, 4-8
240	230	220	2-3	6, 7	1-5, 4-8
	Voltage ndary		Install Supplied Links Between Terminals	Load Lines Connect To	Install Fuse Clips To
12	11.5	11	3-4, 1-2	1, 4	Unfused
24	23	22	2-3	1, 4	Unfused
12	11.5	11	3-4, 1-2	4, 6	1-5
24	23	22	2-3	4, 6	1-5



PH***PG Schematic for 150VA to 500VA Units

High Voltage (HV)	Install Supplied Links	Supply Lines	Install Fuse
(Primary Volts)	Between Terminals	Connect To	Clips To
120 115 110 240 230 220 120 115 110 240 230 220	2-3, 4-5	2, 5	Unfused
	3-4	2, 5	Unfused
	2-3, 4-5	1, 6	2-7, 5-8
	3-4	1, 6	2-7, 5-8
Low Voltage (LV)	Install Supplied Links	Load Lines	Install Fuse
(Secondary Volts)	Between Terminals	Connect To	Clips To
12 11.5 11 24 23 22 12 11.5 11 24 23 22	4-5, 2-3	2, 5	Unfused
	3-4	2, 5	Unfused
	4-5, 2-3	1, 5	2-7
	3-4	1, 5	2-7

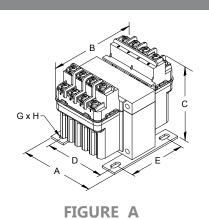


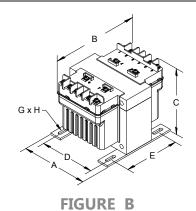
PH***PG Schematic for 750VA and 1000VA Units

High Voltage		Install Supplied Links	Supply Lines	Install Fuse
(Primary Vol		Between Terminals	Connect To	Clips To
240 230 120 115	110 220 110 220	2-3, 4-5 3-4 2-3, 4-5 3-4	2, 5 2, 5 1, 6 1, 6	Unfused Unfused 2-7, 5-8 2-7, 5-8
Low Voltage		Install Supplied Links	Load Lines	Install Fuse
(Secondary Vo		Between Terminals	Connect To	Clips To
12 11.5	11	3-4, 1-2	1, 4	Unfused
24 23	22	2-3	1, 4	Unfused

Note: secondary fuse clips not available on PH750PG or PH1000PG.







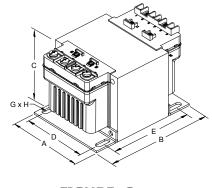


FIGURE C

Group G

Primary Voltage: 110 X 220 120 X 240 115 X 230 **Secondary Voltage:** 12 X 24 11.5 X 23 11 X 22

VA	Catalog	Mtg.	Output Amps	Overall Dimensions		Mounting Centers		Mounting Slot	Height with	Depth with	Approx. Ship	Optional Primary	Optional Unfused and	
Rating	Number	Fig.		A	В	U	D	E	GXH	Finger Guard	Finger Guard	Weight Lbs.	Fuse Kit P/N	Fused Finger Guard Kit P/N
50	PH50PG	Α	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	FG1*/FGF1
75	PH75PG	Α	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	FG2*/FGF2
100	PH100PG	Α	8.33/4.17	3.25	4.19	3.63	2.63	2.63	0.22 x 0.44	4.50	5.63	4.50	PFK1	FG2*/FGF2
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	FG3
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	FG3
350	PH350PG	В	29.2/14.6	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	5.18	6.69	10.1	PFK3	FG4
500	PH500PG	В	41.7/20.8	4.75	5.94	4.31	4.06	3.81	0.31 x 0.94	5.13	7.44	14.2	PFK3	FG4
750	PH750PG	С	62.5/31.3	5.25	6.25	4.94	4.38	4.31	0.31 x 0.81	5.56	7.88	16.6	PFK3	FG5
1000	PH1000PG	С	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	FG5

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.

All dimensions in inches

Group H

575/460/230 | 550/440/220 c Us C E 50/60 Hertz **Primary Voltage:** 600/480/240 || **Secondary Voltage:** 120/100

VA	Catalog	Mtg.	Output Amps	Overall Dimensions		Mounting Centers		Mounting Slot	Height with	Depth with	Approx. Ship	Optional Primary	Optional Unfused and	
Rating	Number	Fig.		Α	В	С	D	E	GXH	Finger Guard	Finger Guard	Weight Lbs.	Fuse Kit P/N	Fused Finger Guard Kit P/N
50	РН50МВМН	Α	0.43	3.25	4.06	3.63	2.63	2.63	0.22 x 0.44	4.50	5.50	4.10	PFK5	FG2*/FGF2
75	РН75МВМН	Α	0.65	3.25	4.19	3.63	2.63	2.63	0.22 x 0.44	4.50	5.63	4.50	PFK5	FG2*/FGF2
100	РН100МВМН	В	0.87	4.00	4.63	3.81	3.38	2.75	0.22 x 0.75	4.50	6.25	4.90	PFK6	FG3
150	РН150МВМН	В	1.30	4.00	5.44	3.81	3.38	2.75	0.22 x 0.75	4.50	6.94	7.60	PFK6	FG3
250	РН250МВМН	В	2.17	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	5.18	6.69	10.1	PFK6	FG4
350	РН350МВМН	В	3.04	4.50	5.56	4.44	3.75	3.75	0.22 x 0.75	5.18	7.06	11.0	PFK7	FG4
500	РН500МВМН	В	4.35	4.75	6.69	4.31	4.06	4.50	0.31 x 0.94	5.13	8.19	16.3	PFK7	FG4
750	РН750МВМН	В	6.52	5.25	6.81	4.94	4.50	4.44	0.31 x 0.81	5.56	8.31	23.6	PFK7	FG5
1000	РН1000МВМН	В	8.70	5.25	8.19	4.94	4.50	5.81	0.31 x 0.81	5.56	9.69	31.2	PFK7	FG5
1500	РН1500МВМН	В	13.0	5.25	8.19	4.94	4.50	6.06	0.38 x 1.0	5.56	9.69	32.0	PFK7	FG5

Secondary fuse clips, fuse clip mounting screws and primary and secondary voltage links/jumpers supplied standard with transformers. *Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43. Refer to page 70 for wiring schematic drawing. Custom voltage and VA sizes available upon request.

All dimensions in inches





^{*}Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43.

Refer to page 69 for wiring schematic drawing. Custom voltages and VA sizes available upon request.

*** Available with FACTORY INSTALLED Primary and Secondary Fuse Kits up to 1000VA. To order, add the suffix "-FK" to the above part number. Refer to page 42 for details. ***

Field Installed Fuse Kits

Standard Secondary Fuse Kits (Field Installed)

All HPS Imperator 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 are not supplied on the PH750PG, PH1000PG, PH750MLI, and PH1000MLI).

Optional Primary Fuse Kits (Field Installed)

All HPS Imperator series machine tool industrial control transformers up to and including 1500VA are available with the following optional primary fuse kits:

Kit Part Number	Applicable Transformer Part Number Suffix's	Applicable VA Sizes	Parts Included in Kit
PFK1 PFK2 PFK3 PFK4 PFK5 PFK6 PFK7	Refer to Spe Tables on Pages Optional Primary	36 to 41 for	4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper, 1 finger guard, PHAK1 instruction sheet 4 fuse clips, 4 mtg. screws, 1 jumper wire, PHAK1 instruction sheet 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 Fuse Kits

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.

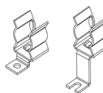
Factory installed fusing only available on units up to 1500VA. The voltage groups that are stocked are:

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.

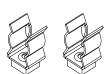
Other voltage groups available with factory installed fuse kits. Please contact your HPS sales or customer service representative for details.

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.



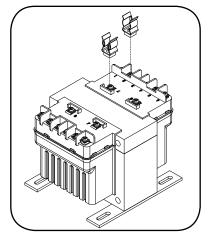
Sample Accessory Drawing for Fuse Clips

(for 50, 75 and 100VA)



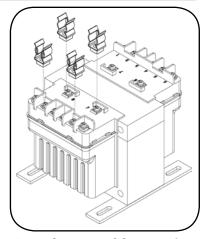
Sample Accessory Drawing for Fuse Clips

(for 150VA to 1500VA)



Sample Assembly Drawing for Secondary Fuse Clip Installation

(For 150VA to 1500VA)



Sample Assembly Drawing for Primary Fuse Clip Installation

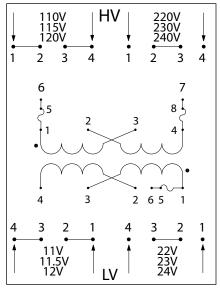
(For 150VA to 1500VA)

Note: HPS Imperator primary and secondary fuse kits are not suitable for branch circuit applications!



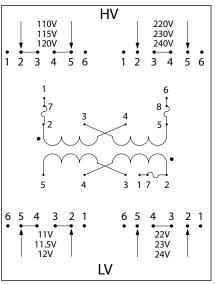
HPS Imperator - Wiring Schematic Drawings continued

Group G



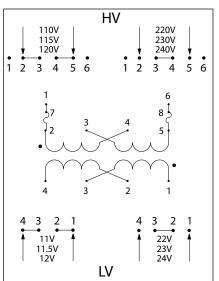
PH***PG Schematic for 50, 75 and 100VA Units

_	Voltag mary V		Install Supplied Links Between Terminals	Supply Lines Connect To	Install Fuse Clips To
120	115	110	1-2, 3-4	1, 4	Unfused
240	230	220	2-3	1, 4	Unfused
120	115	110	1-2, 3-4	6, 7	1-5, 4-8
240	230	220	2-3	6, 7	1-5, 4-8
	Voltage ndary		Install Supplied Links Between Terminals	Load Lines Connect To	Install Fuse Clips To
12	11.5	11	3-4, 1-2	1, 4	Unfused
24	23	22	2-3	1, 4	Unfused
12	11.5	11	3-4, 1-2	4, 6	1-5
24	23	22	2-3	4, 6	1-5



PH***PG Schematic for 150VA to 500VA Units

High Voltage (HV)	Install Supplied Links	Supply Lines	Install Fuse
(Primary Volts)	Between Terminals	Connect To	Clips To
120 115 110 240 230 220 120 115 110 240 230 220	2-3, 4-5	2, 5	Unfused
	3-4	2, 5	Unfused
	2-3, 4-5	1, 6	2-7, 5-8
	3-4	1, 6	2-7, 5-8
Low Voltage (LV)	Install Supplied Links	Load Lines	Install Fuse
(Secondary Volts)	Between Terminals	Connect To	Clips To
12 11.5 11 24 23 22 12 11.5 11 24 23 22	4-5, 2-3	2, 5	Unfused
	3-4	2, 5	Unfused
	4-5, 2-3	1, 5	2-7
	3-4	1, 5	2-7



PH***PG Schematic for 750VA and 1000VA Units

High Voltage		Install Supplied Links	Supply Lines	Install Fuse
(Primary Vol		Between Terminals	Connect To	Clips To
240 230 120 115	110 220 110 220	2-3, 4-5 3-4 2-3, 4-5 3-4	2, 5 2, 5 1, 6 1, 6	Unfused Unfused 2-7, 5-8 2-7, 5-8
Low Voltage		Install Supplied Links	Load Lines	Install Fuse
(Secondary Vo		Between Terminals	Connect To	Clips To
12 11.5	11	3-4, 1-2	1, 4	Unfused
24 23	22	2-3	1, 4	Unfused

Note: secondary fuse clips not available on PH750PG or PH1000PG.

