

SECTION 1

TRANSFORMER QUICK SELECTION CHARTS

HPS Imperator®

Pri. Volts	Sec. Volts	Group	Part No.	Page
600, 575, 550	120 x 240, 115 x 230, 110 x 220	A	PH***AJ	36
600, 575, 550	12 x 24, 11.5 x 23, 11 x 22	B	PH***AR	36
240 x 480, 230 x 460, 220 x 440	120 x 240, 115 x 230, 110 x 220	C	PH***MQMJ	37
240 x 480, 230 x 460, 220 x 440	12 x 24, 11.5 x 23, 11 x 22	D	PH***QR	37
208 x 416, 200 x 400, 190 x 380	120 x 240, 115 x 230, 110 x 220	E	PH***SP	38
120 x 240, 115 x 230, 110 x 220	120 x 240, 115 x 230, 110 x 220	F	PH***PP	38
120 x 240, 115 x 230, 110 x 220	12 x 24, 11.5 x 23, 11 x 22	G	PH***PG	39
600/480/240, 575/460/230, 550/440/220	120/100, 115/95, 110/90	H	PH***MBMH	39
480/240, 460/230/208, 440/220/200	120/25, 115/24, 110/23	I	PH***MLI	40
415/400/380	110 x 220	J	PH***MEMX	40
380/277/208	120 x 240	K	PH***MGJ	41

HPS Spartan®

Pri. Volts	Sec. Volts	Group	Part No.	Page
600/480, 575/460, 550/440	120 x 240, 115 x 230, 110 x 220	A	SP***ACP	47
600, 575, 550	12 x 24, 11.5 x 23, 11 x 22	B	SP***AR	47
240 x 480, 230 x 460, 220 x 440	120 x 240, 115 x 230, 110 x 220	C	SP***MQMJ	48
240 x 480, 230 x 460, 220 x 440	12 x 24, 11.5 x 23, 11 x 22	D	SP***QR	48
347/380	120 x 240	E	SP***KHP	49
347/380	12 x 24	F	SP***KHR	49
277	120	G	SP***NJ	50
120 x 240, 115 x 230, 110 x 220	12 x 24, 11.5 x 23, 11 x 22	H	SP***PR	50
208 x 416, 200 x 400, 190 x 380	120 x 240, 115 x 230, 110 x 220	I	SP***SP	51
208 x 416, 200 x 400, 190 x 380	12 x 24, 11.5 x 23, 11 x 22	J	SP***SR	51

HPS Fusion™

Pri. Volts	Sec. Volts	Group	Part No.	Page
600/480, 575/460, 550/440	120 x 240, 115 x 230, 110 x 220	A	FS***ACP	55
600, 575, 550	12 x 24, 11.5 x 23, 11 x 22	B	FS***AR	55
240 x 480, 230 x 460, 220 x 440	120 x 240, 115 x 230, 110 x 220	C	FS***MQMJ	56
240 x 480, 230 x 460, 220 x 440	12 x 24, 11.5 x 23, 11 x 22	D	FS***QR	56
347/380	120 x 240	E	FS***KHP	57
347/380	12 x 24	F	FS***KHR	57
277	120	G	FS***NJ	58
120 x 240, 115 x 230, 110 x 220	12 x 24, 11.5 x 23, 11 x 22	H	FS***PR	58
208 x 416, 200 x 400, 190 x 380	120 x 240, 115 x 230, 110 x 220	I	FS***SP	59
208 x 416, 200 x 400, 190 x 380	12 x 24, 11.5 x 23, 11 x 22	J	FS***SR	59

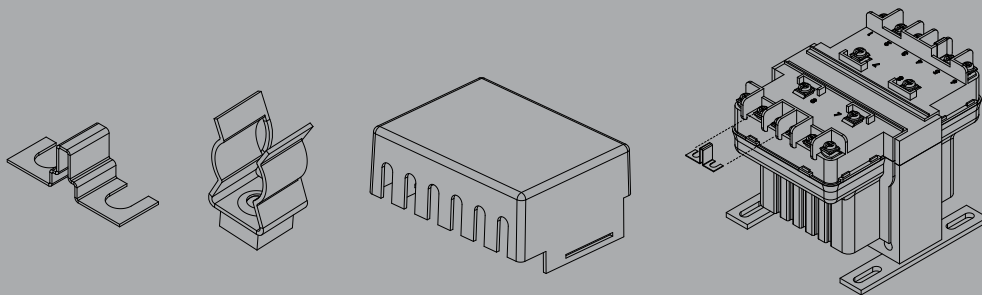
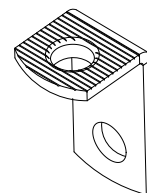
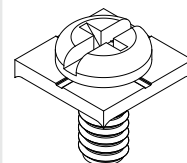
Q Series

Pri. Volts	Sec. Volts	Part No.	Page
600	12/24	Q***PRC*	62



FEATURES & BENEFITS

- 600V class, machine tool rated industrial control transformers
- Multi-voltage primary and secondary models increase range of application per unit
- 50/60 Hertz (60Hz on PH***AJ & PH***AR)
- Termination: standard combination screw connection (including SEMS washers)
- Constructed with high quality silicon steel laminations that provide optimum performance and reliability
- Encapsulated copper wound coils 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.
- Superior insulating materials:
 - 105°C (55°C rise) 50 VA to 150 VA
 - 130°C (80°C rise) 250 VA to 1500 VA
 (Note: Temperature rise based on 25°C ambient)
- Seismically certified in accordance with IBC 2009; Section 1613 Earthquake Loads, for $S_{DS} \leq 2.00g$, $z/h = 1.0$, and $I_p = 1.5$
- Standard secondary fuse kits - utilizing 13/32" x 1 1/2" midget/type CC fuse clips
- Optional primary fuse kits available utilizing 13/32" x 1 1/2" midget/type CC fuse clips
- Optional finger safe terminal covers available on all units
- UL Listed (approved for U.S. and Canada)
- CE Mark standard on all units (excluding PH*AR and PH*AJ)
- RoHS Compliant
- **LIFETIME Warranty (Limited)**

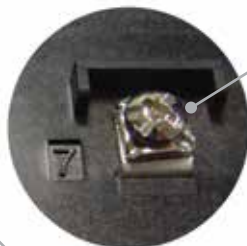


Warranty

Lifetime

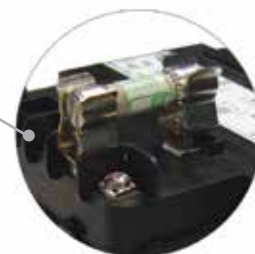
FEATURES & BENEFITS CONTINUED

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



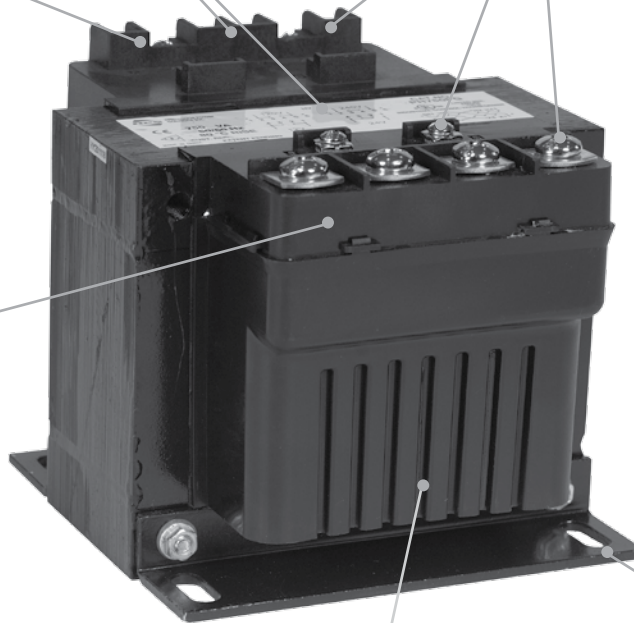
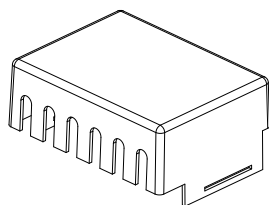
SEMS washer allows for easy connection of supply or load wires with or without terminal connectors.

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



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

Optional removable finger safe terminal covers available on all units.



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.

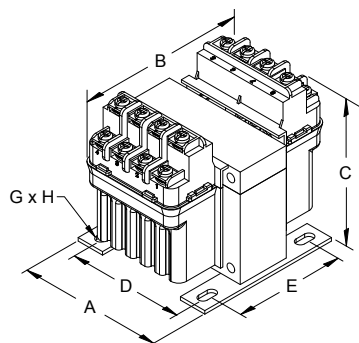


FIGURE A

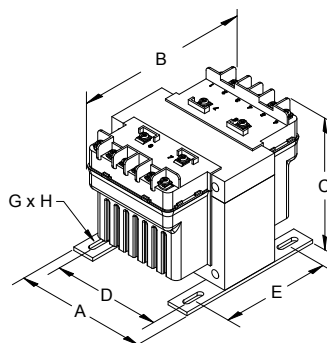


FIGURE B

Group C

Primary Voltage: 240 X 480 || 230 X 460 || 220 X 440
Secondary Voltage: 120 X 240 || 115 X 230 || 110 X 220



50/60 Hertz

VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot G X H	Height with Finger Guard	Depth with Finger Guard	Approx. Ship Weight Lbs.	Optional Primary Fuse Kit P/N	Optional Unfused and Fused Finger Guard Kit P/N
				A	B	C	D	E						
50	PH50MQMJ	A	0.42/0.21	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	PH75MQMJ	A	0.63/0.31	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	PH100MQMJ	A	0.83/0.42	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	PH150MQMJ	B	1.25/0.63	4.00	4.94	3.81	3.38	2.75	0.22 x 0.75	4.50	6.44	5.70	PFK2	FG3
250	PH250MQMJ	B	2.08/1.04	4.50	5.44	3.81	3.75	3.13	0.22 x 0.75	4.50	6.94	7.50	PFK2	FG3
350	PH350MQMJ	B	2.92/1.46	4.50	5.19	4.44	3.75	3.75	0.22 x 0.75	5.18	6.69	10.1	PFK3	FG4
500	PH500MQMJ	B	4.17/2.08	4.75	5.94	4.31	4.06	3.81	0.31 x 0.94	5.13	7.44	14.2	PFK3	FG4
750	PH750MQMJ	B	6.25/3.13	5.13	6.69	4.31	4.38	4.31	0.31 x 0.81	5.13	8.19	16.6	PFK3	FG4
1000	PH1000MQMJ	B	8.33/4.17	5.25	6.81	4.94	4.50	4.44	0.31 x 0.81	5.56	8.31	23.6	PFK3	FG5
1500	PH1500MQMJ	B	12.5/6.25	5.25	8.19	4.94	4.50	6.06	0.38 x 1.00	5.56	9.69	32.0	PFK3	FG5

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

All dimensions in inches

*Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43.
Refer to page 65 for wiring schematic drawing. Custom 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 above part number. Refer to page 42 for details. ***

Group D

Primary Voltage: 240 X 480 || 230 X 460 || 220 X 440
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 G X H	Height with Finger Guard	Depth with Finger Guard	Approx. Ship Weight Lbs.	Optional Primary Fuse Kit P/N	Optional Unfused and Fused Finger Guard Kit P/N
				A	B	C	D	E						
50	PH50QR	A	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	PH75QR	A	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	PH100QR	A	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	PH150QR	B	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	PH250QR	B	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	PH350QR	B	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	PH500QR	B	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

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

All dimensions in inches

*Note: Unfused finger guard kits are marked with an asterisk, for more information refer to page 43.
Refer to page 66 for wiring schematic drawing. Custom voltages and VA sizes available upon request.