

HPS Imperator®

Encapsulated Industrial Control Transformer



GROUP A

Primary Voltage: 600

Secondary Voltage: 120 x 240

575

115 x 230

550

110 x 220

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
				A	B	C	D	E					
50	PH50AJ	A	0.42/0.21	3.00	3.81	3.19	2.50	2.25	0.22 x 0.44	4.00	5.25	2.70	PFK1
75	PH75AJ	A	0.63/0.31	3.25	3.69	3.56	2.63	2.50	0.22 x 0.44	4.37	5.13	2.80	PFK1
100	PH100AJ	A	0.83/0.42	3.25	4.06	3.63	2.63	2.63	0.22 x 0.44	4.44	5.50	4.10	PFK1
150	PH150AJ	B	1.25/0.63	4.00	4.63	3.81	3.38	2.75	0.22 x 0.75	4.50	6.13	4.90	PFK2
250	PH250AJ	B	2.08/1.04	4.50	5.25	3.81	3.75	3.13	0.22 x 0.75	4.50	6.75	6.97	PFK2
350	PH350AJ	B	2.92/1.46	4.50	4.88	4.44	3.75	3.75	0.22 x 0.75	5.18	6.38	8.30	PFK3
500	PH500AJ	B	4.17/2.08	4.75	5.56	4.31	4.06	3.44	0.31 x 0.94	5.13	7.06	11.6	PFK3
750	PH750AJ	B	6.25/3.13	5.13	6.38	4.31	4.38	4.00	0.31 x 0.81	5.13	7.88	16.6	PFK3
1000	PH1000AJ	B	8.33/4.17	5.25	6.50	4.94	4.50	4.09	0.31 x 0.81	5.56	8.00	21.0	PFK3
1500	PH1500AJ	B	12.5/6.25	5.25	7.56	4.94	4.50	5.44	0.38 x 1.00	5.56	9.06	30.0	PFK3

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

GROUP B

Primary Voltage: 600

Secondary Voltage: 12 x 24

575

11.5 x 23

550

11 x 22

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
				A	B	C	D	E					
50	PH50AR	A	4.17/2.08	3.00	3.81	3.19	2.50	2.25	0.22 x 0.44	4.00	5.25	2.70	PFK1
75	PH75AR	A	6.25/3.13	3.25	3.69	3.56	2.63	2.50	0.22 x 0.44	4.37	5.13	2.80	PFK1
100	PH100AR	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
150	PH150AR	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
250	PH250AR	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
350	PH350AR	B	29.2/14.6	4.50	4.88	4.44	3.75	3.75	0.22 x 0.75	5.18	6.38	8.30	PFK3
500	PH500AR	B	41.7/20.8	4.75	5.56	4.31	4.06	3.44	0.31 x 0.94	5.13	7.06	11.6	PFK3

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

GROUP C

Primary Voltage: 240 x 480

Secondary Voltage: 120 x 240

230 x 460

115 x 230

220 x 440

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
				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
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
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
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
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
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
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
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
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
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

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

GROUP D

Primary Voltage: 240 x 480

Secondary Voltage: 12 x 24

230 x 460

11.5 x 23

220 x 440

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
				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
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
100	PH100QR	A	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	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
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
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
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

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

GROUP E

Primary Voltage: 208 x 416

Secondary Voltage: 120 x 240

200 x 400

115 x 230

190 x 380

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
				A	B	C	D	E					
50	PH50SP	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
75	PH75SP	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
100	PH100SP	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
150	PH150SP	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
250	PH250SP	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
350	PH350SP	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
500	PH500SP	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
750	PH750SP	B	6.25/3.13	5.13	6.69	4.31	4.38	4.31	0.31 x 0.81	5.013	8.19	16.6	PFK3
1000	PH1000SP	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

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

GROUP F

Primary Voltage: 120 x 240

Secondary Voltage: 120 x 240

115 x 230

115 x 230

110 x 220

110 x 220

50/60 Hertz

VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mtg. Slot G X H	Height with Finger Guard	Depth with Finger Guard	Approx. Ship Weight Lbs.	Optional Primary Fuse Kit P/N
				A	B	C	D	E					
50	PH50PP	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
75	PH75PP	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
100	PH100PP	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
150	PH150PP	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
250	PH250PP	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
350	PH350PP	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
500	PH500PP	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
750	PH750PP	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
1000	PH1000PP	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
1500	PH1500PP	B	12.5/6.25	5.25	8.19	4.94	4.50	6.06	0.38 x 1.0	5.56	9.69	32.0	PFK3

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

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. Volt	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.

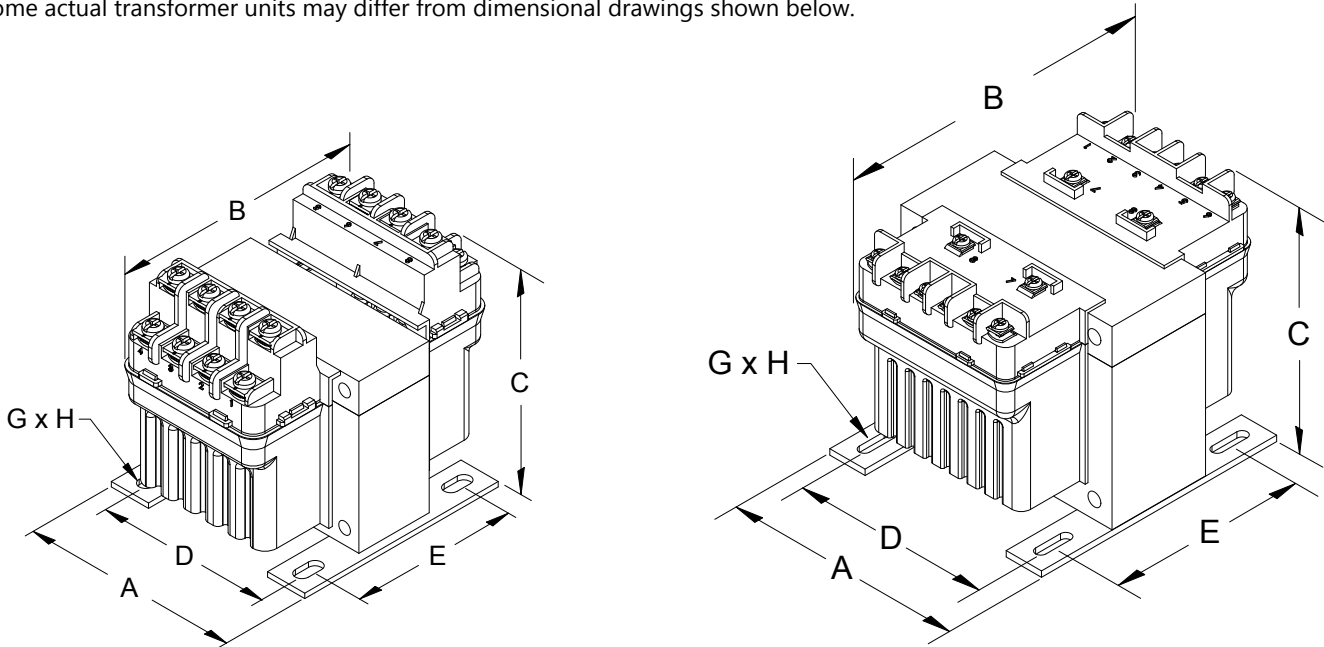


FIGURE A (100 VA and less)

FIGURE B (150 VA to 1500 VA)

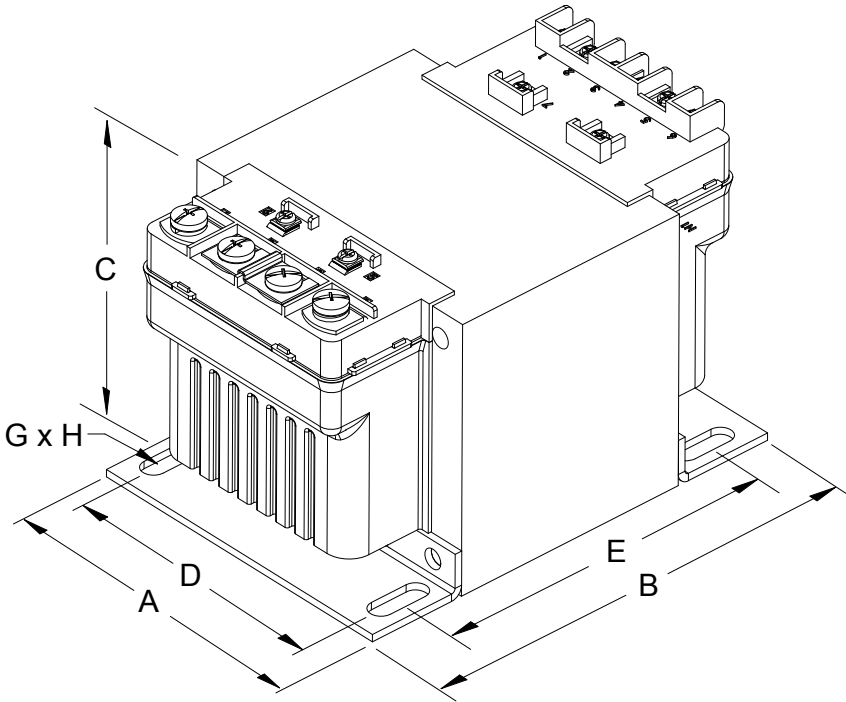


FIGURE C (For PH750PG, PH1000PG, PH750MLI & PH1000MLI)