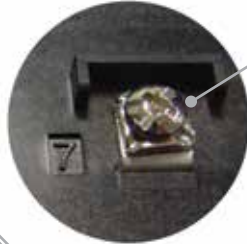


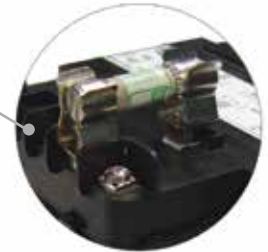
## FEATURES & BENEFITS CONTINUED

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



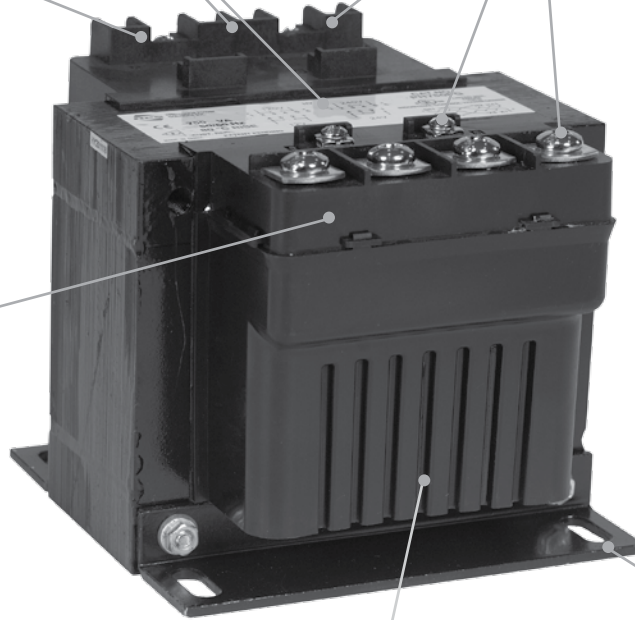
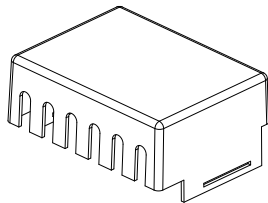
SEMS washer allows for easy connection of supply or load wires with or without terminal connectors.

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.



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

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

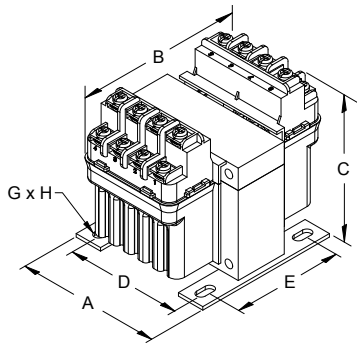


FIGURE A

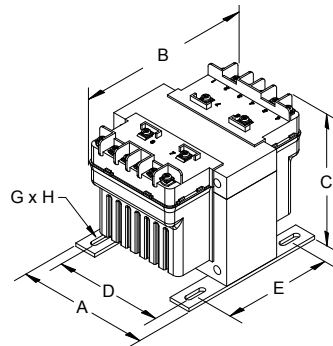


FIGURE B

## 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	PH50QMJ	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	PH75QMJ	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	PH100QMJ	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	PH150QMJ	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	PH250QMJ	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	PH350QMJ	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	PH500QMJ	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	PH750QMJ	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	PH1000QMJ	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	PH1500QMJ	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.

## Optional Accessories

### Finger Guards

The HPS Imperator line of machine tool industrial molded control transformers are available with the following optional finger guard kits:

#### Optional Unfused Finger Guard Kits

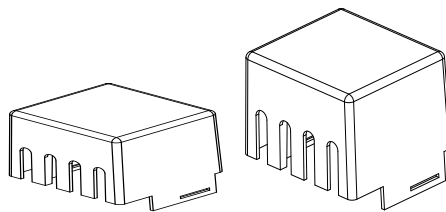
Kit Part Number	Applicable Transformer Part Number Suffixes	Applicable VA Sizes
<b>FG1</b>	AJ, AR, MQMJ, MEMX, QR, SP, PG, PP	50
<b>FG2</b>	MBMH, MGJ, MLI	50
<b>FG2</b>	All	75
<b>FG2</b>	All (excluding PH100MBMH) Refer to FG3, FG4 or FG5 below	100 150 to 1500

**Note:** Each finger guard kit supplies either the primary or secondary side.  
Included in the kit: 1 finger guard (unfused) and PHAK1 instruction sheet

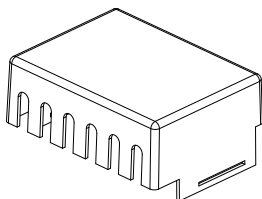
#### Optional Fused Finger Guard Kits

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

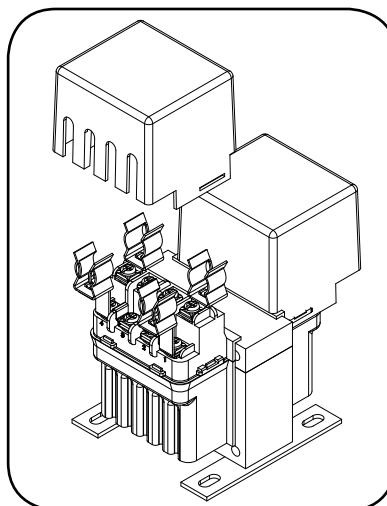
**Note:** Each finger guard kit supplies either the primary or secondary side.



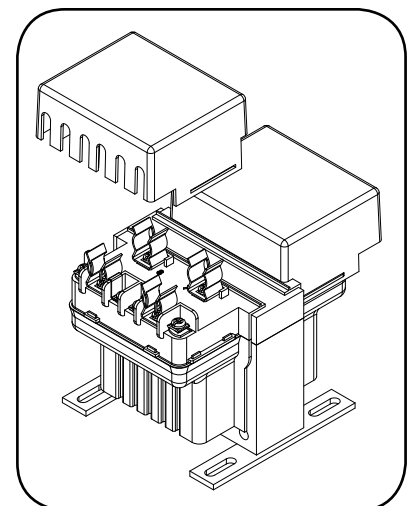
**Sample Accessory Drawing for Fused & Unfused Finger Guards**  
(for 50, 75 and 100VA)



**Sample Accessory Drawing for Finger Guards**  
(for 150VA and 1500VA)



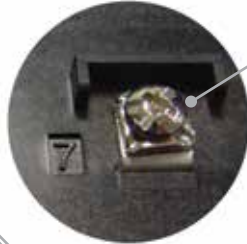
**Sample Assembly Drawing for Finger Guard Installation**  
(For 50, 75 and 100VA)



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

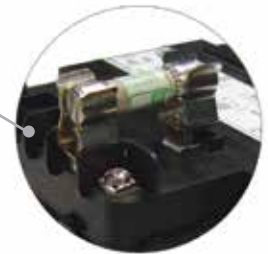
## FEATURES & BENEFITS CONTINUED

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



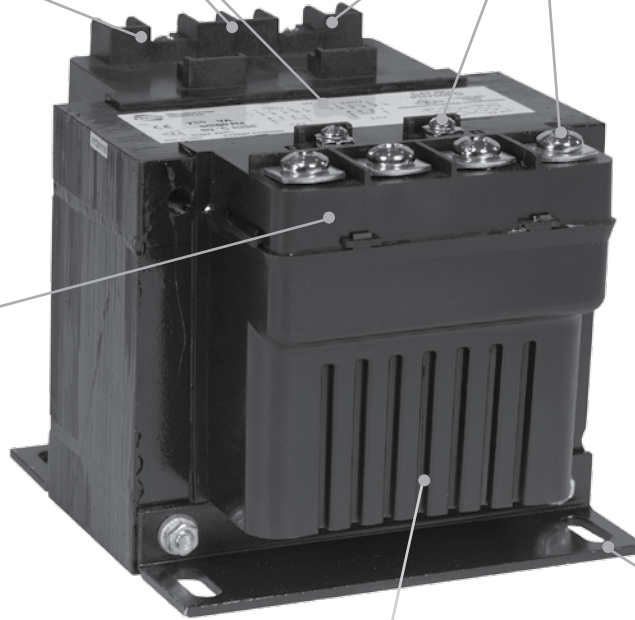
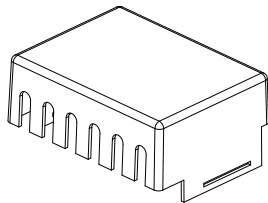
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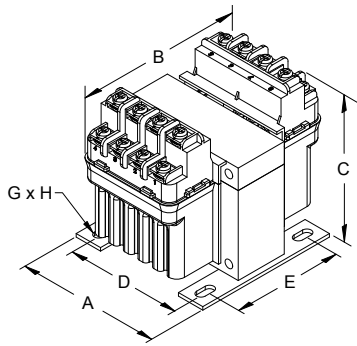


FIGURE A

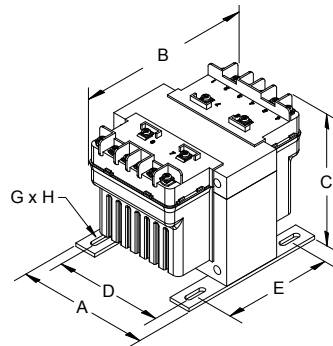


FIGURE B

## 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	PH50QMJ	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	PH75QMJ	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	PH100QMJ	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	PH150QMJ	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	PH250QMJ	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	PH350QMJ	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	PH500QMJ	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	PH750QMJ	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	PH1000QMJ	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	PH1500QMJ	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
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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.

## Optional Accessories

### Finger Guards

The HPS Imperator line of machine tool industrial molded control transformers are available with the following optional finger guard kits:

#### Optional Unfused Finger Guard Kits

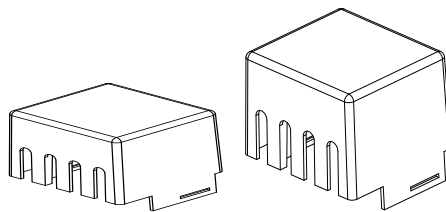
Kit Part Number	Applicable Transformer Part Number Suffixes	Applicable VA Sizes
<b>FG1</b>	AJ, AR, MQMJ, MEMX, QR, SP, PG, PP	50
<b>FG2</b>	MBMH, MGJ, MLI	50
<b>FG2</b>	All	75
<b>FG2</b>	All (excluding PH100MBMH) Refer to FG3, FG4 or FG5 below	100 150 to 1500

**Note:** Each finger guard kit supplies either the primary or secondary side.  
Included in the kit: 1 finger guard (unfused) and PHAK1 instruction sheet

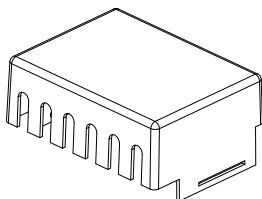
#### Optional Fused Finger Guard Kits

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

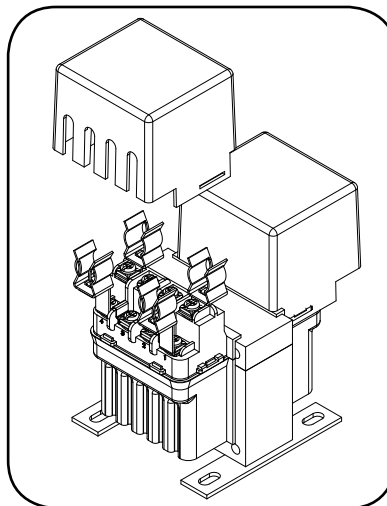
**Note:** Each finger guard kit supplies either the primary or secondary side.



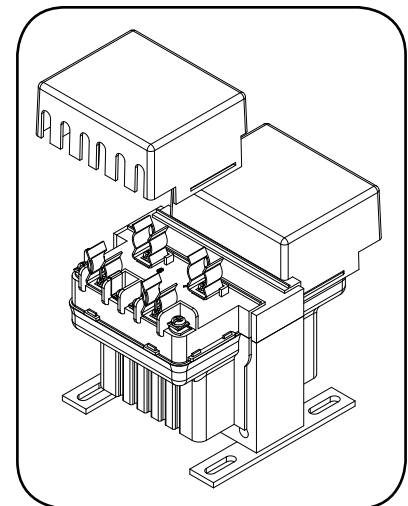
**Sample Accessory Drawing  
for Fused & Unfused  
Finger Guards**  
(for 50, 75 and 100VA)



**Sample Accessory Drawing  
for Finger Guards**  
(for 150VA and 1500VA)



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



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