

## HPS Fortress Features

HPS Fortress is an innovative design that provides the ideal solution for commercial applications where **quality, ease of installation, and low cost** are key.

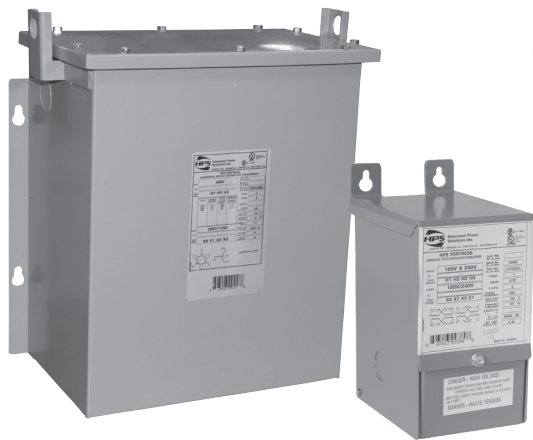
All units are encapsulated with electrical grade silica sand and resin compounds, which completely enclose the core and coil to seal out moisture, airborne contaminants and eliminates corrosion and deterioration.

### Standard Features

Features	Single Phase	Three Phase
<b>Voltage Groups</b>	9 standard voltage groups	8 standard voltage groups
<b>Ratings</b>	From 50VA to 37.5kVA	From 2kVA to 75kVA
<b>Shield</b>	Standard shield from 750VA and up	Standard shield on all units
<b>Frequency</b>	60 Hz (50Hz standard on four voltage groups)	60Hz standard on all voltage groups
<b>Connection</b>	Standard via copper leads	
<b>Enclosure</b>	Type 3R	Type 3R (type 4/12 with optional gasket kit installed)
<b>Quality Design</b>	All units are encapsulated with electrical grade silica sand and resin compounds, which completely enclose the core and coil to seal out moisture, airborne contaminants and eliminates corrosion and deterioration.	
<b>Conduit Knockouts</b>	For rear and side entry into an easily accessible and roomy wiring compartment (no knock-outs on Stainless Steel enclosures).	
<b>Installation</b>	Wall mounting up to 25kVA, optional wall mounting bracket available on 37.5kVA. Wall mounting template supplied.	Wall mounting up to 9kVA, optional wall mounting bracket available on 15kVA, 30kVA and 45kVA. Wall mounting template supplied.
<b>Warranty</b>	All HPS standard catalog encapsulated transformers come with a 10 year limited* warranty	

\*(Please refer to the HPS Warranty on page 26 for full details.)

Inexpensive  
& easy



### Applications

- Shopping Centers
- Schools
- Sports Complexes
- Office Buildings
- Lighting



## HPS FORTRESS™

## COMMERCIAL ENCAPSULATED DISTRIBUTION TRANSFORMERS

## THREE PHASE STANDARD SPECIFICATIONS - ALUMINUM WOUND

2 TO 3 KVA



6 TO 75 KVA



	2 kVA to 3 kVA	6 kVA to 75 kVA
<b>UL Listed</b>	File: E50394	File: E50394
<b>CSA Certified</b>	File: LR3902	File: LR3902
<b>Frequency</b>	60 Hz (50/60 Hz)	60 Hz (50/60 Hz)
<b>Insulation System</b>	130°C (80°C rise) standard on all units.	180°C (115°C rise) standard on all units.
<b>Electrostatic Shield</b>	Standard on all units.	Standard on all units.
<b>Encapsulation</b>	All units are encapsulated with electrical grade silica sand and resin compounds.	All units are encapsulated with electrical grade silica sand and resin compounds.
<b>Enclosure Type</b>	Type 3R	Type 3R
<b>Enclosure Finish</b>	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
<b>Termination</b>	Top accessible separate high and low voltage lead wires or copper tabs.	Top accessible separate high and low voltage lead wires or copper tabs.
<b>Conduit Knock-Outs</b>	Standard side and rear knock-outs on all units (no knock-outs on Stainless Steel enclosures).	Standard side and rear knock-outs on all units (no knock-outs on Stainless Steel enclosures).
<b>Impedance</b>	Typically 4 to 8%	Typically 1 to 5%.
<b>Mounting</b>	Standard Wall Mounting Lifting provisions standard on all units.	Standard Wall Mounting up to (but not including) 15 kVA (optional wall mounting kit available for 15 kVA, 30 kVA and 45 kVA). Floor mount only over 45 kVA. Lifting provisions standard 6 kVA to 75 kVA.
<b>Sound Level</b>	Meets NEMA ST-20 standards.	Meets NEMA ST-20 standards.

Other voltages and kVA ratings not listed in this section are available upon request. Please contact customer service for details, price and availability.

## ALUMINUM WOUND THREE PHASE, TYPE 3R ENCLOSURE



480 Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
2	C3F002KBS	NQT3	12.38	5.44	11.13	50	W	SCD8
3	C3F003KBS	NQT3	12.38	5.44	11.13	70	W	SCD8
6	C3F006KBS	NQT5	16.63	10.25	16.63	140	W	SCD8
9	C3F009KBS	NQT6	19.25	10.44	16.63	210	W	SCD8
15	C3F015KBS	NQT7	20.25	13.00	23.38	350	F or W*	SCD8
30	C3F030KBS	NQT8	22.25	13.00	28.38	525	F or W*	SCD9
45	C3F045KBS	NQT9	31.50	16.00	29.88	700	F or W*	SCD9
75	C3F075KBS	NQT9A	34.63	18.50	36.75	1420	F	SCD9

\*OPTIONAL WALL MOUNTING KIT REQUIRED.  
REFER TO PAGE 240 FOR DETAILS.

480 Primary Volts

240D Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
2	C3F002KDS	NQT3	12.38	5.44	11.13	50	W	SCD12
3	C3F003KDS	NQT3	12.38	5.44	11.13	70	W	SCD12
6	C3F006KDS	NQT5	16.63	10.25	16.63	140	W	SCD12
9	C3F009KDS	NQT6	19.25	10.44	16.63	210	W	SCD12
15	C3F015KDS	NQT7	20.25	13.00	23.38	350	F or W*	SCD12
30	C3F030KDS	NQT8	22.25	13.00	28.38	525	F or W*	SCD38
45	C3F045KDS	NQT9	31.50	16.00	29.88	700	F or W*	SCD38
75	C3F075KDS	NQT9A	34.63	18.50	36.75	1420	F	SCD38

\*OPTIONAL WALL MOUNTING KIT REQUIRED.  
REFER TO PAGE 240 FOR DETAILS.

600 Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
2	C3F002PBS	NQT3	12.38	5.44	11.13	50	W	SCD8
3	C3F003PBS	NQT3	12.38	5.44	11.13	70	W	SCD8
6	C3F006PBS	NQT5	16.63	10.25	16.63	140	W	SCD8
9	C3F009PBS	NQT6	19.25	10.44	16.63	210	W	SCD8
15	C3F015PBS	NQT7	20.25	13.00	23.38	350	F or W*	SCD8
30	C3F030PBS	NQT8	22.25	13.00	28.38	525	F or W*	SCD9
45	C3F045PBS	NQT9	31.50	16.00	29.88	700	F or W*	SCD9
75	C3F075PBS	NQT9A	34.63	18.50	36.75	1420	F	SCD9

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600 Primary Volts

240D Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
2	C3F002PDS	NQT3	12.38	5.44	11.13	50	W	SCD12
3	C3F003PDS	NQT3	12.38	5.44	11.13	70	W	SCD12
6	C3F006PDS	NQT5	16.63	10.25	16.63	140	W	SCD12
9	C3F009PDS	NQT6	19.25	10.44	16.63	210	W	SCD12
15	C3F015PDS	NQT7	20.25	13.00	23.38	350	F or W*	SCD12
30	C3F030PDS	NQT8	22.25	13.00	28.38	525	F or W*	SCD45
45	C3F045PDS	NQT9	31.50	16.00	29.88	700	F or W*	SCD45
75	C3F075PDS	NQT9A	34.63	18.50	36.75	1420	F	SCD45

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