



ENCAPSULATED TRANSFORMERS FOR COMMERCIAL APPLICATIONS



Encapsulated Transformers for Commercial Applications



For commercial applications where airborne contaminants are present, HPS general-purpose encapsulated transformers offer a cost-effective solution that prioritizes safety, quality and ease of installation and maintenance.

The core and coil are completely encapsulated in epoxy and silica. This provides excellent protection against airborne particles and moisture build-up inside the transformer enclosure, significantly reducing the risk of operational interruptions.

Approvals

- UL Listed, file No. E50394
- CSA Certified file No. LR3902



Standard Design

- **Aluminum windings** (on units above 3kVA) - Provide a cost effective solution without compromising on quality and performance.
- **Standard electrostatic shield** (units 750VA and above) - Provides an additional layer of protection against electromagnetic interference, ensuring stable performance.
- **Higher impedance designs** (3 Phase) - Minimizes short circuit currents allowing for the use of more cost-effective protective devices, reducing your overall project expenses.
- **Standard 10kV BIL** (3 Phase) - Provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients).
- **Improved efficiency level** - Reduces energy costs.

Applications



Shopping Centers



Schools



Sports Complexes



Office Buildings



Lighting



Wastewater

For industrial applications requiring “Class 1, Division 2, Groups A, B, C and D Hazardous Locations” please refer to the HPS Titan N Series.



Features & Benefits

Single Phase

Wall Mounting - Installation made quick and easy with keyhole mounting slots and supplied wall mounting template.

Type 3R Enclosure - Suitable for indoor and outdoor applications.

Rear and Side Entry Conduit Knockouts - Provide easy access into a roomy wiring compartment.



Easily Accessible Nameplate - Provides wiring diagram for ease of installation.



Encapsulated in Epoxy & Silica - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.

*Picture displayed above is of a standard single phase unit.

Three Phase

Removable Hinged Door - Allows for convenient access to terminations for easier installation and maintenance.

Textured Paint - Provides excellent durability.

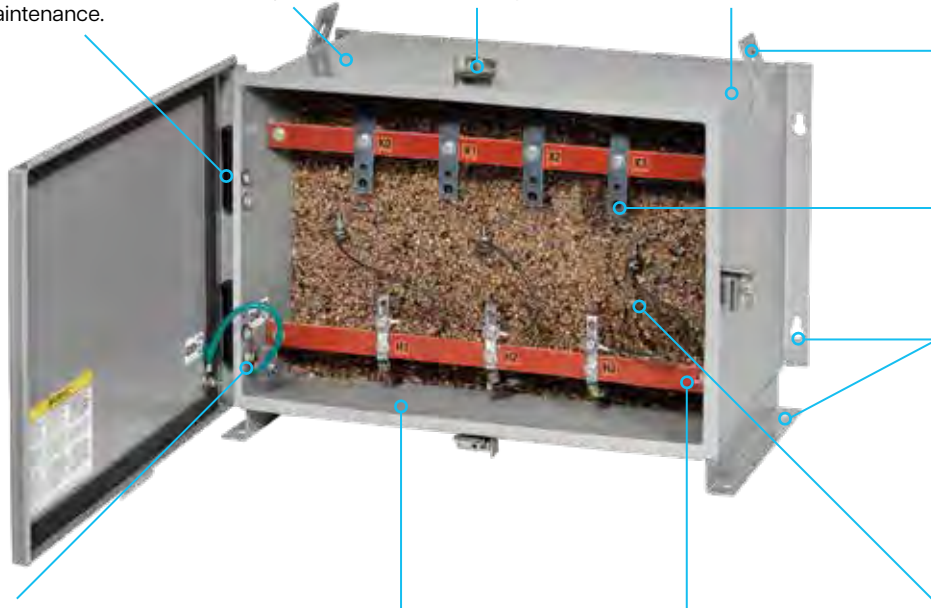
Adjustable Screw Clips With Gasket Stop.

Standard Type 4 Enclosure - Highly suitable for indoor and outdoor applications (optional 4X available).

Lifting Hooks - Pre-installed for improved handling and transportation.

Voltage Taps - Easily accessible for installation via hinged door.

Wall & Floor Mounting (on select kVA's) - Pre-installed reducing the time and effort required for installation, contributing to overall cost savings.



Factory Installed Grounding Lugs - Installed to save you time and money with easy access to the ground.



Optional Breather Drains - Ensures any moisture build-up due to condensation is easily eliminated without compromising the integrity of the Type 4 enclosure.

Separate High & Low Voltage Terminal Boards (15 kVA and up only) - Allowing for safe and easy connections.

Encapsulated in Epoxy & Silica - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.

*Picture displayed above is of a standard three phase unit.

Encapsulated Transformers for Commercial Applications

Specifications & Accessories

Standard Specifications



Features	Single Phase	Three Phase
kVA:	50VA to 37.5kVA	6kVA to 75kVA
UL Listed:	E50394	
Frequency:	60Hz (50/60Hz options available for specific voltages groups)	60Hz or 50/60Hz
Shield:	Standard on 750VA and up	Standard on all units
Insulation System:	130°C (95°C rise) up to 1 kVA 180°C (135°C rise) 1.5 to 37.5kVA Optional 180°C (95°C rise) 1.5 to 37.5kVA	135°C rise (220°C class)
Enclosure Type:	Heavy duty enclosed Type 3R standard (Optional Type 4, 12)	Heavy duty enclosed Type 4 standard (Optional Type 4X)
Enclosure Finish:	ANSI 61 Grey	ANSI 61 Grey, UL50E textured powder coating or stainless steels.
Optional Accessories:	N/A	Glass filled Nylon condensate valve Part number: PLG19000 (Optional SS available)
Standard Primary Taps:	Refer to wiring diagrams for details.	
Termination:	Front accessible separated high and low voltage lead wires or mounting pads.	
Conduit Entry:	Rear and side entry.	Side or bottom enclosure entry (exceptions apply on bottom entry).
Impedance:	Typically 1% to 7%	Typically 2% to 5%
Sound Level:	Meets NEMA ST-20 standards	
Warranty:	10 year limited*	

*Please refer to the HPS website for full details.

Single Phase Part Number Guide

Example

Family	kVA	Pri. Volt.	Sec. Volt.	Electrostatic Shield
C 1 F	0 0 5	L	E	S

Family	kVA Rating	Primary Voltage	Shield:
C1F - Encapsulated Transformers for Commercial Applications	0.05kVA	- C05	S - Shielded <i>Note: Shielded windings are only available and are standard on single phase units over 750VA and must have the letter "S" in the part number.</i>
	0.10kVA	- C10	
	0.15kVA	- C15	
	0.25kVA	- C25	
	0.35kVA	- C35	
	0.50kVA	- C50	
	0.75kVA	- C75	
	1.0kVA	- 1C0	
	1.5kVA	- 1C5	
	2kVA	- 002	
	3kVA	- 003	
	5kVA	- 005	
	7.5kVA	- 007	
	10kVA	- 010	
	15kVA	- 015	
	25kVA	- 025	
37.5kVA	- 037		
		1PH: E - 120 x 240 W - 120/208/240/277 G - 208 x 416 L - 240 x 480 C - 277 ¹ H - 277/480 ¹ J - 347/380 ¹ P - 600	
		Secondary Voltage	
		1PH: E - 120/240 R - 208/277	



*Default options - ignore if all following characters are default values

- 95°C rise is standard on units up to and including 1kVA.
- 135°C rise is standard on units 1.5kVA and above.
- 95°C rise is optional on units 1.5kVA and above.

Three Phase Part Number Guide

Example

Family	Generation	Phase	kVA	Pri. Volt.	Sec. Volt.	Winding Material/ Electrostatic Shield	Temp. Rise & Insul. Class	Frequency	Enclosure				
F	C	2	A	0	0	4	5	K	B	S	P	6	F

Family	kVA Ratings	Primary Voltage	Winding Material
FC - Encapsulated Transformers for Commercial Applications	6kVA	- 0006	S - AL + Shield
	9kVA	- 0009	
	15kVA	- 0015	
	30kVA	- 0030	
	45kVA	- 0045	
75kVA	- 0075		
Generation			Temperature Rise
2 - Current designs			P - 135°C Rise (220°C Class)
Phase (Pri-Sec)			Frequency
A - 3PH Delta-Wye-N*			5 - 50/60Hz
C - 3PH Delta-Delta/CT ¹			6 - 60Hz ²
D - 3PH Delta-Delta			Enclosure
		Secondary Voltage	F - Type 4* ²
		3PH B - 208Y/120 C - 230Y/133 D - 240D, 240Y/139, or 240D/120CT G - 380Y/220 K - 480Y/277 P - 600Y/347 V - 220Y/127	G - Type 4X (304SS)
			H - Type 4X (316SS)



*Default Options

¹Available standard only with 240D/120CT secondaries.

²Type 4 enclosure is also Type 12.

³Units with primary voltage code "G" come standard as 50/60Hz.

SELECTION TABLES

Aluminum Single Phase, Type 3R Enclosure



120X240 PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05EE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.10	C1FC10EE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.15	C1FC15EE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 1F
0.25	C1FC25EE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 1F
0.35	C1FC35EE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	15.0 [6.8]	W	SCD 1F
0.50	C1FC50EE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.2]	W	SCD 1F
0.75	C1FC75EE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 1F
1	C1FC00EES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 1F
1.5	C1FC5EES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.9]	W	SCD 1F
2	C1F002EES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.9]	W	SCD 1F
3	C1F003EES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.8]	W	SCD 1F
5	C1F005EES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	96.0 [43.2]	W	SCD 1F
7.5	C1F007EES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 2F
10	C1F010EES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	178 [80]	W	SCD 2F

* Copper wound unit

208X416 PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05GE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.10	C1FC10GE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.15	C1FC15GE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 1F
0.25	C1FC25GE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 1F
0.35	C1FC35GE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	15.0 [6.8]	W	SCD 1F
0.50	C1FC50GE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.2]	W	SCD 1F
0.75	C1FC75GES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 1F
1	C1FC00GES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 1F
1.5	C1FC5GES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.9]	W	SCD 1F
2	C1F002GES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.9]	W	SCD 1F
3	C1F003GES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.8]	W	SCD 1F
5	C1F005GES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	96.0 [43.2]	W	SCD 1F
7.5	C1F007GES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 2F
10	C1F010GES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	178 [80]	W	SCD 2F

* Copper wound unit

120/208/240/277 PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05WE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 41F
0.10	C1FC10WE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 41F
0.15	C1FC15WE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 41F
0.25	C1FC25WE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	10.0 [4.5]	W	SCD 41F
0.35	C1FC35WE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	17.0 [7.7]	W	SCD 41F
0.50	C1FC50WE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	25.0 [11.3]	W	SCD 41F
0.75	C1FC75WES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 41F
1	C1FC00WES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 41F
1.5	C1FC5WES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	37.0 [16.7]	W	SCD 41F
2	C1F002WES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	52.0 [23.4]	W	SCD 41F
3	C1F003WES*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	65.0 [29.3]	W	SCD 2F
5	C1F005WES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	108 [49]	W	SCD 2F
7.5	C1F007WES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	171 [77]	W	SCD 2F
10	C1F010WES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	183 [82]	W	SCD 2F

* Copper wound unit

SELECTION TABLES

Aluminum Wound Single Phase, Type 3R Enclosure



240X480 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05LE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.10	C1FC10LE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 1F
0.15	C1FC15LE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 1F
0.25	C1FC25LE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	9.0 [4.1]	W	SCD 1F
0.35	C1FC35LE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	15.0 [6.8]	W	SCD 1F
0.50	C1FC50LE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.2]	W	SCD 1F
0.75	C1FC75LE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 1F
1	C1FC05LES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 1F
1.5	C1FC15LES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.9]	W	SCD 1F
2	C1F002LES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.9]	W	SCD 1F
3	C1F003LES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.8]	W	SCD 1F
5	C1F005LES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115 [52]	W	SCD 1F
7.5	C1F007LES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 2F
10	C1F010LES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81]	W	SCD 2F
15	C1F015LES	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	265 [119]	W	SCD 2F
25	C1F025LES	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	385 [173]	W	SCD 2F
37.5	C1F037LES	NQS10	21.88 [555.76]	18.50 [469.90]	31.00 [787.40]	598 [269]	F or W*	SCD 2F

* Copper wound unit

277 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

50/60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05CE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 4F
0.10	C1FC10CE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 4F
0.15	C1FC15CE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 4F
0.25	C1FC25CE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 4F
0.35	C1FC35CE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	15.0 [6.8]	W	SCD 4F
0.50	C1FC50CE*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	15.0 [6.8]	W	SCD 4F
0.75	C1FC75CES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 4F
1	C1F1C0CES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 4F
1.5	C1F1C5CES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.9]	W	SCD 4F
2	C1F002CES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.9]	W	SCD 4F
3	C1F003CES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.8]	W	SCD 4F
5	C1F005CES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115 [52]	W	SCD 4F
7.5	C1F007CES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 2F
10	C1F010CES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	178 [80]	W	SCD 2F

* Copper wound unit

277/480 PRIMARY VOLTAGE

208/277 SECONDARY VOLTAGE

50/60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05HR*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 42F
0.10	C1FC10HR*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 42F
0.15	C1FC15HR*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	11.0 [5.0]	W	SCD 42F
0.25	C1FC25HR*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	12.0 [5.4]	W	SCD 42F
0.35	C1FC35HR*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	15.0 [6.8]	W	SCD 42F
0.50	C1FC50HR*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	18.0 [8.1]	W	SCD 42F
0.75	C1FC75HRS*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	25.0 [11.3]	W	SCD 42F
1	C1F1C0HRS*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	31.0 [14.0]	W	SCD42F
1.5	C1F1C5HRS*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	39.0 [17.6]	W	SCD 42F
2	C1F002HRS*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	54.0 [24.3]	W	SCD 42F
3	C1F003HRS*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	80.0 [36.0]	W	SCD 43F
5	C1F005HRS	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	156 [70]	W	SCD 43F
7.5	C1F007HRS	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	188 [85]	W	SCD 43F
10	C1F010HRS	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81]	W	SCD 43F

* Copper wound unit

SELECTION TABLES

Aluminum Wound Single Phase, Type 3R Enclosure



347/380 PRIMARY VOLTAGE **CE** 120/240 SECONDARY VOLTAGE 50/60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05JE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 33F
0.10	C1FC10JE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 33F
0.15	C1FC15JE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 33F
0.25	C1FC25JE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 33F
0.35	C1FC35JE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	14.0 [6.3]	W	SCD 33F
0.50	C1FC50JE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	14.0 [6.3]	W	SCD 33F
0.75	C1FC75JES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 33F
1	C1F1C0JES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	32.0 [14.4]	W	SCD 33F
1.5	C1F1C5JES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	35.0 [15.8]	W	SCD 33F
2	C1F002JES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	51.0 [23.0]	W	SCD 33F
3	C1F003JES*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	98.0 [44.1]	W	SCD 44F
5	C1F005JES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	120 [54]	W	SCD 44F
7.5	C1F007JES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	162 [73]	W	SCD 44F
10	C1F010JES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	194 [87]	W	SCD 44F

* Copper wound unit

600 PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05PE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 4F
0.10	C1FC10PE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 4F
0.15	C1FC15PE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.6]	W	SCD 4F
0.25	C1FC25PE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 4F
0.35	C1FC35PE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	15.0 [6.8]	W	SCD 4F
0.50	C1FC50PE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.2]	W	SCD 4F
0.75	C1FC75PES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.4]	W	SCD 4F
1	C1F1C0PES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.8]	W	SCD 4F
1.5	C1F1C5PES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.9]	W	SCD 4F
2	C1F002PES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.9]	W	SCD 4F
3	C1F003PES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.8]	W	SCD 4F
5	C1F005PES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	120 [54]	W	SCD 4F
7.5	C1F007PES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 5F
10	C1F010PES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81]	W	SCD 5F
15	C1F015PES	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	265 [119]	W	SCD 5F
25	C1F025PES	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	385 [173]	W	SCD 5F
37.5	C1F037PES	NQS10	21.88 [555.76]	18.50 [469.90]	31.00 [787.40]	598 [269]	F or W*	SCD 5F

* Copper wound unit

Export Model **CE**

190/200/208/220/240¹X 380/400/416/440/480¹ PRIMARY VOLTAGE 120/240 SECONDARY VOLTAGE 50/60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	C1FC05XE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 28F
0.10	C1FC10XE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.2]	W	SCD 28F
0.15	C1FC15XE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	9.0 [4.1]	W	SCD 28F
0.25	C1FC25XE*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	10.0 [4.5]	W	SCD 28F
0.35	C1FC35XE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	15.0 [6.8]	W	SCD 28F
0.50	C1FC50XE*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.2]	W	SCD 28F
0.75	C1FC75XES*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	24.0 [10.8]	W	SCD 28F
1	C1F1C0XES*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	32.0 [14.4]	W	SCD 28F
1.5	C1F1C5XES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	37.0 [16.7]	W	SCD 28F
2	C1F002XES*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	52.0 [23.4]	W	SCD 28F
3	C1F003XES*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	97.0 [43.7]	W	SCD 2F
5	C1F005XES	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	120 [54]	W	SCD 2F
7.5	C1F007XES	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67]	W	SCD 2F
10	C1F010XES	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81]	W	SCD 2F

* Copper wound unit

Note ¹ The primary voltage ratio of 240 or 480 is available at 60Hz only with a secondary voltage of approximately 130/262V

SELECTION TABLES

Aluminum Wound Three Phase, Type 4 Enclosure



208D PRIMARY VOLTAGE 208Y/120 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006BB	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009BB	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015BB	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030BB	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045BB	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075BB	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	4 - 3.5% 2FCAN, 2FCBN	1350 [612.35]	F	SCD 3F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

208D PRIMARY VOLTAGE 480Y/277 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006BK	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 23F
9	FC2A0009BK	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 23F
15	FC2A0015BK	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 53F
30	FC2A0030BK	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 53F
45	FC2A0045BK	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 53F
75	FC2A0075BK	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	4 - 3.5% 2FCAN, 2FCBN	1350 [612.35]	F	SCD 26F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

240D PRIMARY VOLTAGE 208Y/120 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006DB	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009DB	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015DB	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030DB	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045DB	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075DB	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

240D PRIMARY VOLTAGE 480Y/277Y SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006DK	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 23F
9	FC2A0009DK	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 23F
15	FC2A0015DK	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 53F
30	FC2A0030DK	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 53F
45	FC2A0045DK	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 53F
75	FC2A0075DK	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 53F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

480D PRIMARY VOLTAGE 208Y/120 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006KB	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009KB	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015KB	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030KB	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045KB	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075KB	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

SELECTION TABLES

Aluminum Wound Three Phase, Type 4 Enclosure



480D PRIMARY VOLTAGE 240Y/139 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006KD	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009KD	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015KD	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030KD	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045KD	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075KD	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

600D PRIMARY VOLTAGE 208Y/120 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006PB	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009PB	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015PB	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030PB	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045PB	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075PB	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

600D PRIMARY VOLTAGE 240Y/139 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006PD	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009PD	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015PD	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030PD	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045PD	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075PD	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

600D PRIMARY VOLTAGE 480Y/277 SECONDARY VOLTAGE 60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
6	FC2A0006PK	DQT3	19.13[485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	FC2A0009PK	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	FC2A0015PK	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	FC2A0030PK	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	FC2A0045PK	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	FC2A0075PK	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

ACCESSORIES

Wall Mounting Kit

Single Phase

The following wall mounting kits are available:

Enclosure Case Style*	Mounting Type	Wall Mounting Kit Part Number
NQ0-NQ8	Wall	Included
NQS10	Wall or Floor	NQTW2

Features Included

- Manufactured from heavy-duty angle steel for maximum support.
- Wall mounting brackets are finished in matching ANSI 61 UL 50 Grey.
- All hardware required to attach to the transformer is supplied.
- Mounting brackets come with three wall mounting holes for maximum holding strength.

Three Phase

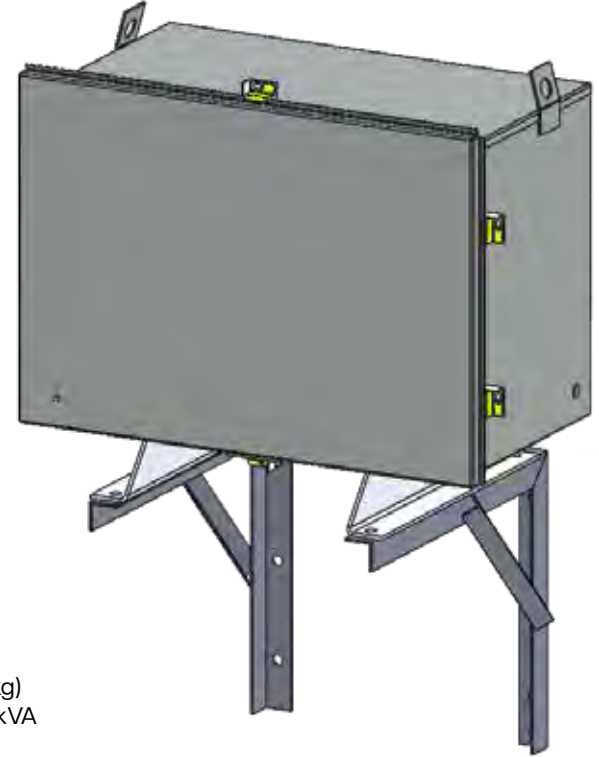
The following wall mounting kit is specifically designed for the three phase HPS encapsulated transformers for commercial applications:

Enclosure Case Style*	Mounting Type	Wall Mounting Kit Part Number
DQT5-DQT6	Wall	DQTW1

The DQTW1 kit can only be used on any unit, up to a maximum of 800 pounds (363 kg) and utilizes an HPS DQT5 or DQT6 enclosure. Generally, this would be a 15kVA or 30kVA HPS encapsulated transformers for commercial application units.

IMPORTANT

Please ensure your wall mounting location and position meets all local building and fire codes and regulations.



Note: The above image is showing a three phase unit.

TYPICAL PERFORMANCE DATA

GENERAL PURPOSE

Three Phase

VOLTAGE RANGE 120V TO 600V
135°C TEMP. RISE

kVA	Impedance	Peak Inrush Current Multiple of RMS Current
6	2-5%	20 to 30
9		
15		
30	1.8-2.5%	10 to 20
45		
75		

kVA	Efficiency (% rated load)		
	100%	50%	35%
6	92.91%	94.22%	93.96%
9	93.29%	94.72%	95.25%
15	94.50%	95.64%	95.97%
30	95.28%	96.35%	96.97%
45	98.28%	98.49%	98.05%
75	98.39%	98.67%	98.53%

- Efficiencies are approximate, and not guaranteed.

- All efficiencies are based on 75°C reference temperature.

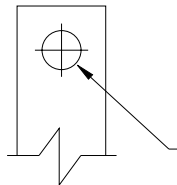
TERMINATION DETAILS

TERMINATION, LEADS OR PADS

Single Phase Voltage (Primary or Secondary)

kVA	Voltage										
	120x240	120/240	208x416	120/208/240/277	240x480	277	277/480	208/277	347/380	600	
0.05											
0.1											
0.15											
0.25											
0.35											
0.5											
0.75											
1											
1.5											
2											
3											
5											
7.5	LUG1	1A	LUG1	LUG1	LUG1	LUG1	LUG1	1A	LUG1	LUG1	LUG1
10	LUG1	1A	LUG1	LUG1	LUG2	LUG1	LUG1	1B	LUG1	LUG1	LUG1
15	N/A	1A	N/A	N/A	LUG2	N/A	N/A	N/A	N/A	1A	LUG1
25	N/A	1B	N/A	N/A	LUG3	N/A	N/A	N/A	N/A	1A	N/A
37.5	N/A	1C	N/A	N/A	LUG3	N/A	N/A	N/A	N/A	1C	N/A

Lead Wire



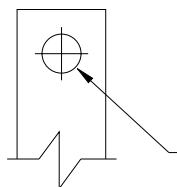
- 1A = 0.22" Dia.
- 1B = 0.28" Dia.
- 1C = 0.34" Dia.
- 1D = 0.44" Dia.

Diagram 1 - Single Phase

Three Phase Voltage (Primary or Secondary)

kVA	Voltage							
	208	230	240	277	380	400	480	600
6								
9								
15	1A	1A	1A	1A	1A	1A	1A	1A
30	1A	1A	1A	1A	1A	1A	1A	1A
45	1B	1A	1A	1A	1A	1A	1A	1A
75	1B	1B	1B	1B	1A	1A	1A	1A

Lead Wire



- 1A = 0.28" Dia.
- 1B = 0.44" Dia.

Diagram 1 - Three Phase

ENCLOSURE DRAWINGS & DIMENSIONS

NQ SERIES - SINGLE PHASE

Figure 1

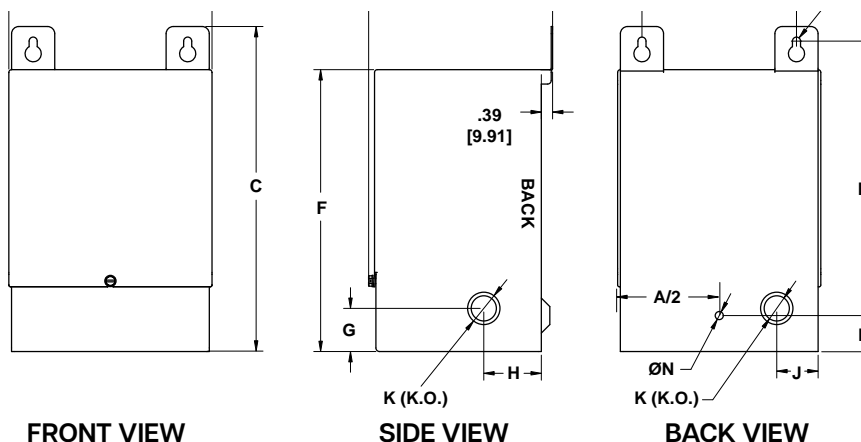
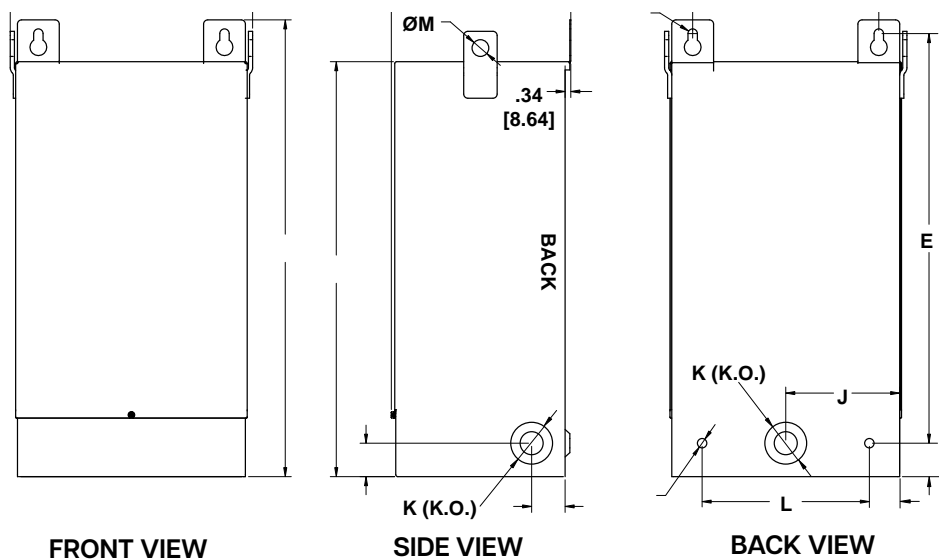


Figure 2



Case Style	Fig #	A	B	C	D	E	F	G	H	J	K'	L	M	N	P	R
NQ0	1	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	2.50 [63.50]	5.63 [143.01]	6.19 [157.23]	1.50 [38.10]	2.00 [50.80]	--	0.88 [22.36]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ1	1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	3.13 [79.51]	5.63 [143.01]	6.13 [155.71]	1.50 [38.10]	2.00 [50.80]	0.81 [20.58]	0.88 [22.36]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ2	1	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	3.88 [98.56]	7.75 [196.85]	8.30 [210.82]	1.50 [38.10]	2.00 [50.80]	1.00 [25.40]	0.88 x 1.13 x 1.38 [22.36 x 28.71 x 35.06]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ3	1	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	4.13 [104.91]	8.31 [211.08]	9.06 [230.13]	1.50 [38.10]	2.00 [50.80]	1.25 [31.75]	0.88 x 1.13 x 1.38 [22.36 x 28.71 x 35.06]	--	--	0.28 [7.12]	1.25 [31.75]	--
NQ4	1	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	5.38 [136.66]	10.00 [254.00]	10.30 [261.62]	1.25 [31.75]	2.00 [50.80]	1.50 [38.10]	0.88 x 1.13 x 1.38 [22.36 x 28.71 x 35.06]	--	--	0.28 [7.12]	1.25 [31.75]	--
NQ5	2	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	7.38 [187.46]	15.38 [390.66]	15.25 [387.35]	2.375 [60.33]	2.00 [50.80]	4.00 [101.60]	1.13 x 1.38 [28.71 x 35.06]	6.00 [152.40]	0.75 [19.05]	0.44 [11.18]	1.25 [31.75]	1.68 [42.68]
NQ6A	2	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	9.38 [238.26]	14.88 [377.96]	15.56 [395.23]	2.00 [50.80]	2.00 [50.80]	5.00 [127.00]	1.38 x 2.50 [35.06 x 63.50]	8.00 [203.20]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.68 [42.68]
NQ6	2	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	9.38 [238.26]	18.13 [460.51]	18.88 [479.56]	2.00 [50.80]	2.00 [50.80]	5.00 [127.00]	1.38 x 2.50 [35.06 x 63.50]	8.00 [203.20]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.68 [42.68]
NQ7	2	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	11.63 [295.41]	18.63 [473.21]	19.38 [492.26]	2.00 [50.80]	2.00 [50.80]	6.00 [152.40]	1.38 x 2.50 [35.06 x 63.50]	10.00 [254.00]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.68 [42.68]
NQ8	2	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	11.13 [282.71]	24.50 [622.30]	24.88 [631.96]	2.00 [50.80]	2.00 [50.80]	6.00 [152.40]	1.38 x 2.50 [35.06 x 63.50]	10.00 [254.00]	0.75 [19.05]	0.56 [14.23]	2.00 [50.80]	1.68 [42.68]

¹ Knockout (K) sizes are actual diameters of knockout, not conduit sizes

ENCLOSURE DRAWINGS & DIMENSIONS

DQT SERIES - THREE PHASE

Figure 1

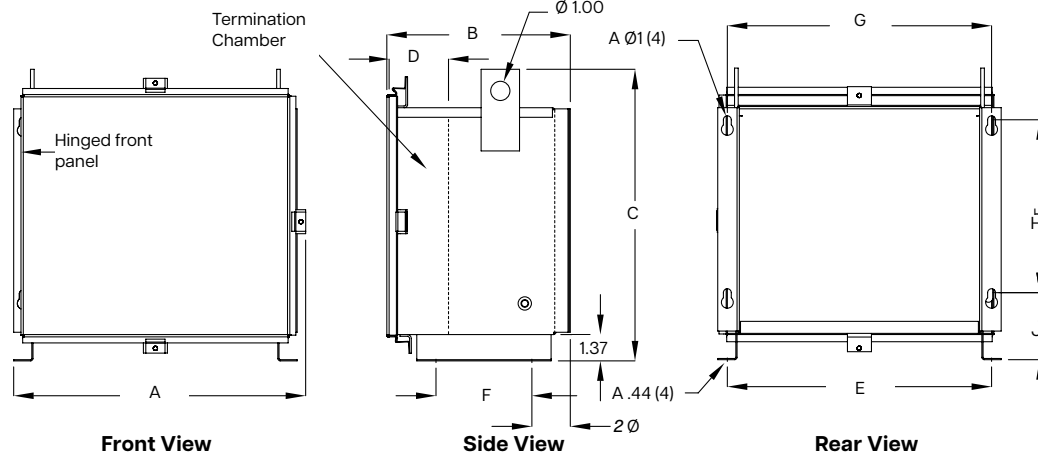
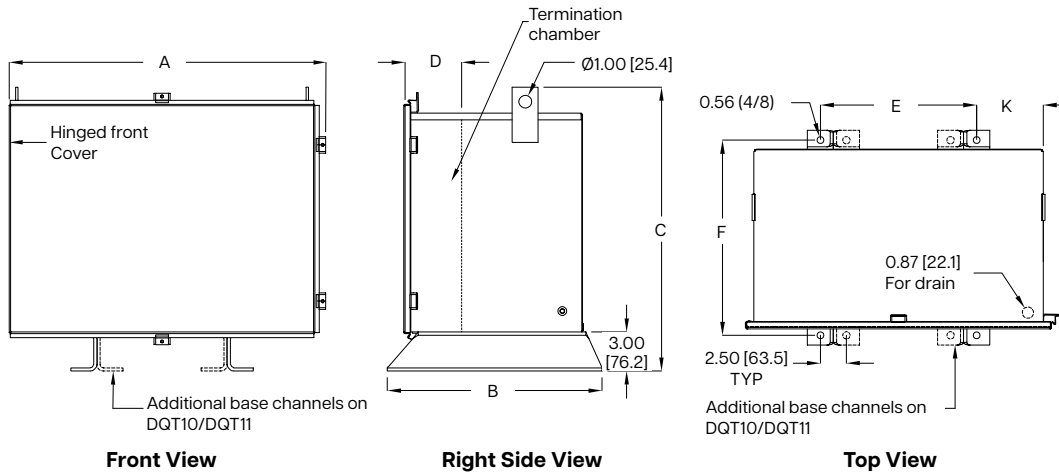


Figure 2



Case Style	Fig. #	Dimensions in Inches [Millimeter]									
		A	B	C	D*	E	F	G	H	J	K
DQT1	1	13.13 [333]	9.13 [232]	13.38 [340]	2.50 [63]	11.50 [292]	5.25 [133]	11.50 [292]	6.50 [165]	3.69 [94]	-
DQT2	1	15.88 [403]	9.88 [251]	15.38 [391]	2.50 [63]	14.25 [362]	6.00 [152]	14.25 [362]	8.00 [203]	3.69 [94]	-
DQT3	1	19.13 [485]	11.88 [302]	14.69 [373]	3.00 [76]	17.50 [444]	8.00 [203]	17.50 [444]	8.00 [203]	3.44 [87]	-
DQ3A	1	20.38 [518]	13.00 [330]	16.38 [416]	3.0 [76]	18.75 [476]	9.00 [229]	18.75 [476]	9.00 [229]	3.44 [87]	-
DQT4	1	22.38 [569]	13.88 [352]	17.25 [438]	5.00 [127]	20.75 [527]	10.00 [254]	20.75 [527]	9.00 [229]	3.69 [94]	-
DQT5	2	25.88 [657]	16.50 [419]	21.88 [556]	4.50 [114]	14.00 [356]	15.00 [381]	-	-	-	4.62 [117]
DQT6	2	26.13 [664]	19.75 [501]	21.88 [556]	5.50 [140]	14.00 [356]	18.25 [463]	-	-	-	4.75 [121]
DQT7	2	32.38 [822]	22.00 [559]	25.63 [651]	6.00 [152]	20.00 [508]	20.50 [521]	-	-	-	4.88 [124]
DQT8	2	35.13 [892]	26.00 [660]	26.63 [676]	6.00 [152]	20.00 [508]	24.50 [622]	-	-	-	6.25 [159]

*D represents the typical minimum depth of the termination chamber (conduit fittings should be sized within these limits)

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 1F

Schematic				Connections					
				Primary Volts		Connect lines to	Inter-connect		
				240	480	416	H1, H4	H2-H3	
				120	240	208	H1, H4	H1-H3, H2-H4	
				Secondary Volts		Connect lines to	Inter-connect		
				24	32	48	240	X1, X4	X2-X3
				12/24	16/63	24/48	120/240	X1, X2, X4	X2-X3
				12	16	24	120	X1, X2	X2-X4, X1-X3

SCD 2F

Schematic		Connections									
		% Voltage		Primary Volts				Connect lines to	Inter-connect		
		105.0%	504	440	437	218	291	277	440	H1, H2	1-2
		102.5%	492		426	213	284			H1, H2	2-3
		100.0%	480	416	416	208	277	240	416	H1, H2	3-4
		97.5%	468		406	203	270			H1, H2	4-5
		95.0%	456	400	395	198	263	208	400	H1, H2	5-6
		92.5%	444		385	192	256			H1, H2	6-7
		90.0%	432	380	374	187	249	120	380	H1, H2	7-8
				220						H1, H2	H1-2, H2-1
				240		208	208			H1, H2	H1-4, H2-3
		228		200	198			H1, H2	H1-6, H2-5		
		216		190	187			H1, H2	H1-8, H2-7		
		Secondary Volts		Connect lines to				Inter-connect			
		240						X1, X4	X2-X3		
		120						X1, X2	X2-X4, X1-X3		
		120/240						X1, X2, X4	X2-X3		

SCD 3F

Schematic		Connections						
		% Voltage		Primary Volts			Connect lines to	Inter-connect
		105.0%	219	252	504	630	H1, H2, H3	1
		102.5%	213	246	492	615	H1, H2, H3	2
		100.0%	208	240	480	600	H1, H2, H3	3
		97.5%	203	234	468	585	H1, H2, H3	4
95.0%	198	228	456	570	H1, H2, H3	5		
		Secondary Volts		Connect lines to			Inter-connect	
		208		240	400	X1, X2, X3	-	
		120		139	231	X1, X0 X2, X0 X3, X0	-	

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 4F

Schematic	Connections													
	Primary Volts											Connect lines to	Inter-connect	
	208	277	347	380	416	600	2400	3300	4160	4800	6600	7200	H1, H2	-
	Secondary Volts											Connect lines to	Inter-connect	
	240	24	X1, X4	X2-X3										
	120/240	12/24	X1, X2, X4	X2-X3										
	120	12	X1, X2	X2-X4, X1-X3										

SCD 5F

Schematic	Connections												
	% Voltage	Primary Volts								Connect lines to	Inter-connect		
	100.0%	120	208	240	277	380	416	480	600	H1, H2	1-2		
	95.0%	114	198	228	263	361	395	156	570	H1, H2	2-3		
	90.0%	108	188	216	249	347	374	432	540	H1, H2	3-4		
	Secondary Volts											Connect lines to	Inter-connect
	240	X1, X4	X2-X3										
	120/240	X1, X2, X4	X2-X3										
120	X1, X2	X2-X4, X1-X3											

SCD 8F

Schematic	Connections												
	% Voltage	Primary Volts			Connect lines to	Inter-connect							
	105.0%	252	504	630	H1, H2, H3	1-2							
	100.0%	240	480	600	H1, H2, H3	2-3							
	95.0%	228	456	570	H1, H2, H3	3-4							
	Secondary Volts											Connect lines to	Inter-connect
	208	240	480	X1, X2, X3	-								
	120	139	277	X1, X0 X2, X0 X3, X0	-								

SCD 19F

Schematic	Connections						
	% Voltage	Primary Volts				Connect lines to	Inter-connect
	105.0%	219	252	504	630	H1, H2, H3	1
	102.5%	213	246	492	615	H1, H2, H3	2
	100.0%	208	240	480	600	H1, H2, H3	3
	97.5%	203	234	468	585	H1, H2, H3	4
	95.0%	198	228	456	570	H1, H2, H3	5
	92.5%	193	222	445	556	H1, H2, H3	6
	90.0%	188	217	434	542	H1, H2, H3	7
			Secondary Volts			Connect lines to	Inter-connect
			208	240	400	X1, X2, X3	-
			120	139	231	X1, X0 X2, X0 X3, X0	-

SCD 23F

Schematic	Connections				
	% Voltage	Primary Volts		Inter-connect	
	105.0%	218	252	1-2	
	100.0%	208	240	2-3	
	95.0%	198	228	3-4	
			Secondary Volts		Inter-connect
			240	480	-
			139	277	-

SCD 26F

Schematic	Connections				
	% Voltage	Primary Volts		Inter-connect	
	107.0%	223		1	
	103.5%	215		2	
	100.0%	208		3	
	96.5%	201		4	
	93.0%	193		5	
			Secondary Volts		Inter-connect
			240	480	-
			139	277	-

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 28F

Schematic	Connections		
	Primary Volts	Connect lines to	Inter-connect
	480 (60Hz)	H1, H10	H5-H6
	440	H1, H10	H5-H6
	416	H1, H9	H4-H6
	400	H1, H8	H3-H6
	380	H1, H7	H2-H6
	240 (60Hz)	H1, H10	H1-H6, H5-H10
	220	H1, H10	H1-H6, H5-H10
	208	H1, H9	H1-H6, H5-H10
	200	H1, H8	H1-H6, H3-H8
	190	H1, H7	H1-H6, H2-H7
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120/240	X1, X2, X4	X2-X3
	120	X1, X4	X2-X4, X1-X3

SCD 33F

Schematic	Connections			
	Primary Volts	Connect lines to	Inter-connect	
	380	H1, H3	-	
	347	H1, H2	-	
		Secondary Volts	Connect lines to	Inter-connect
		240	X1, X4	X2-X3
		120/240	X1, X2, X4	X2-X3
		120	X1, X2	X2-X4, X1-X3

SCD 41F

Schematic	Connections			
	Primary Volts	Connect lines to	Inter-connect	
	277	H1, H5	-	
	240	H1, H4	-	
	208	H1, H3	-	
	120	H1, H2	-	
		Secondary Volts	Connect lines to	Inter-connect
		240	X1, X4	X2-X3
		120/240	X1, X2, X4	X2-X3
		120	X1, X2	X2-X4, X1-X3

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 42F

Schematic		Connections		
	Primary Volts	Connect lines to	Inter-connect	
	480	H1, H3	-	
	277	H1, H2	-	
	Secondary Volts	Connect lines to	Inter-connect	
	277	X1, X3	-	
	208	X1, X2	-	

SCD 43F

Schematic		Connections		
	Primary Volts	Connect lines to	Inter-connect	
	480	H1, H2	1-2	
	277	H1, H2	2-3	
	Secondary Volts	Connect lines to	Inter-connect	
	277	X1, X2	X5-X6	
	208	X1, X2	X3-X4	

SCD 44F

Schematic		Connections		
	Primary Volts	Connect lines to	Inter-connect	
	380	H1, H2	1-2	
	347	H1, H2	3-4	
	Secondary Volts	Connect lines to	Inter-connect	
	240	X1, X4	X2-X3	
	120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3		

SCD 53F

Schematic		Connections			
	% Voltage	Primary Volts		Connect lines to	Inter-connect
	105.0%	219	252	X1, X2, X3	1
	102.5%	213	246	X1, X2, X3	2
	100.0%	208	240	X1, X2, X3	3
	97.5%	203	234	X1, X2, X3	4
	95.0%	198	228	X1, X2, X3	5
	92.5%	193	222	X1, X2, X3	6
	90.0%	188	217	X1, X2, X3	7
	Secondary Volts	Connect lines to		Inter-connect	
	240	480	H1, H2, H3	-	
	139	277	H1, H0 H2, H0 H3, H0	-	



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