

SECTION 1

DRY-TYPE DISTRIBUTION TRANSFORMERS

GROUP V



190/200/208/220/240 DELTA PRIMARY VOLTS — 400Y/231 SECONDARY VOLTS — 3Ø, 60 Hz

KVA	CATALOG NO.	APPROX. DIMENSIONS Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	KNOCKOUTS Inches (Cm.)	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 146
		HEIGHT	WIDTH	DEPTH					
15.0	T-3-79083-S	18.86 (47.9)	20.30 (51.6)	9.03 (22.9)	300 (136.1)	F ①	NA	NA	75-I
20.0	T-2A-79084-S	29.90 (75.9)	28.15 (71.5)	22.37 (56.8)	500 (226.8)	F ⑤	NA	WS-A-2	74-E
30.0	T-2A-79085-S	29.90 (75.9)	28.15 (71.5)	22.37 (56.8)	511 (231.8)	F ⑤	NA	WS-A-2	74-E
45.0	T-2A-79087-S	25.50 (64.8)	24.39 (62.0)	19.37 (49.2)	540 (244.9)	F ⑤	NA	WS-A-1	74-E
75.0	T-2A-79088-S	35.90 (91.2)	31.90 (81.0)	26.88 (68.3)	703 (318.9)	F	NA	WS-A-3	74-E

GROUP W

400 DELTA PRIMARY VOLTS — 240 DELTA/120 SECONDARY VOLTS — 3Ø, 60 Hz

KVA	CATALOG NO.	APPROX. DIMENSIONS Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	KNOCKOUTS Inches (Cm.)	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 146
		HEIGHT	WIDTH	DEPTH					
15.0	T-3-79068-1S	18.86 (47.9)	20.30 (51.6)	9.03 (22.9)	250 (113.4)	F ①	NA	N/A	76-I
30.0	T-3-79069-3S	25.48 (64.7)	24.39 (62.0)	19.37 (49.2)	300 (136.1)	F ⑤	NA	WS-A-1	77-E
45.0	T-3-79070-3S	25.48 (64.7)	24.39 (62.0)	19.37 (49.2)	365 (165.6)	F ⑤	NA	WS-A-1	77-E
75.0	T-3-79071-3S	29.40 (74.7)	28.15 (71.5)	22.37 (56.8)	475 (215.5)	F ⑤	NA	WS-A-2	77-E

AUTO-TRANSFORMERS ②

600 PRIMARY VOLTS — 480 SECONDARY VOLTS — 3Ø, 60 Hz

480 PRIMARY VOLTS — 380 SECONDARY VOLTS — 3Ø, 50/60 Hz ALTERNATE RATING

KVA		CATALOG NO.	APPROX. DIMENSIONS Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	KNOCKOUTS Inches (Cm.)	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 146
600 Pri.	480 Pri.		HEIGHT	WIDTH	DEPTH					
480V Sec.	380 Sec.									
15.0	12.0	T-2-52703-1③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	104 (47.2)	W	NA	NA	56-F
30.0	24.0	T-2-52705-1③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	152 (68.9)	W	NA	NA	56-F
45.0	36.0	T-2-52707-1③	15.21 (38.6)	19.25 (48.9)	7.37 (18.7)	156 (70.8)	W	NA	NA	56-F
75.0	60.0	T-3-52710-1③	18.86 (47.9)	20.30 (51.6)	9.03 (22.9)	300 (136.1)	F ①	NA	NA	56-I
112.5	90.0	T-2A-52712-1④	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	325 (147.0)	F ⑤	NA	WS-A-1	57-E
150.0	120.0	T-2A-52713-1④	25.50 (64.8)	24.40 (62.0)	19.40 (49.3)	350 (158.8)	F ⑤	NA	WS-A-1	57-E
225.0	180.0	T-2A-52715-1④	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	600 (272.0)	F ⑤	NA	WS-A-2	57-E
300.0	240.0	T-2A-52717-1④	29.41 (74.7)	28.15 (71.5)	22.37 (56.8)	650 (294.8)	F ⑤	NA	WS-A-2	57-E
450.0	360.0	T-2A-52718-1④	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	750 (340.0)	F	NA	WS-A-3	57-E
500.0	400.0	T-2A-52719-1④	35.47 (90.1)	31.90 (81.0)	26.88 (68.3)	790 (358.3)	F	NA	WS-A-3	57-E

① Wall mounting brackets use PL-79911.

② If used on unbalanced loads, these units should only be used on a 4 wire system with the supply neutral connected to the transformer. If used on balanced loads, such as motor loads, then they may be used on a 3 wire system without a neutral or 4th wire.

③ These units are encapsulated with a 115° C temperature rise.

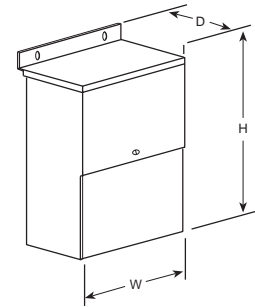
④ These units are ventilated with 150° C temperature rise.

⑤ Wall mounting brackets use PL-79912.

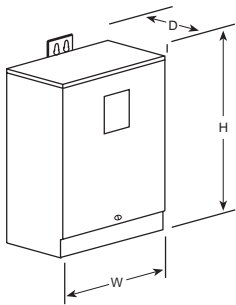
Design Figures

Sections I, II, III & IV

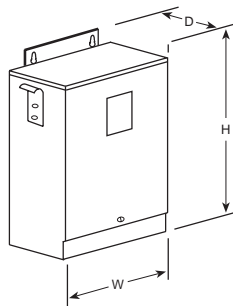
These drawings are for reference only.
Contact factory for certified drawings.



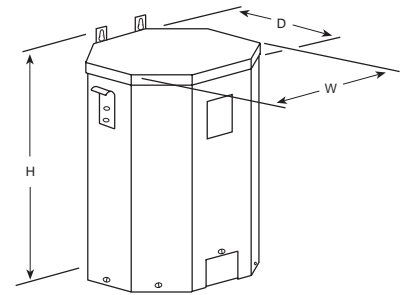
Design A



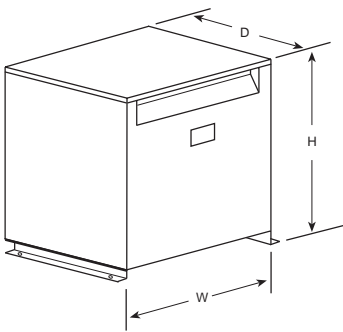
Design B



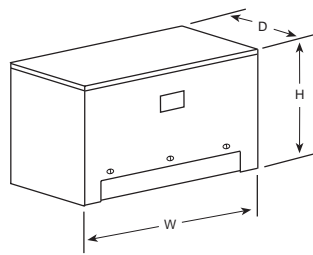
Design C



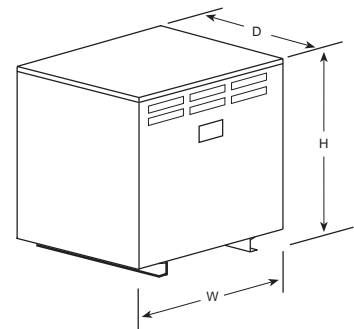
Design D



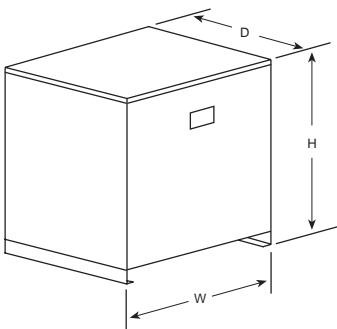
Design E



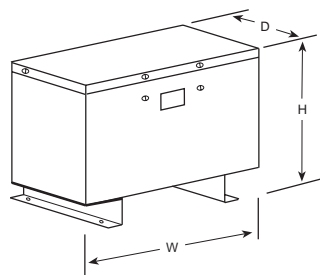
Design F



Design G



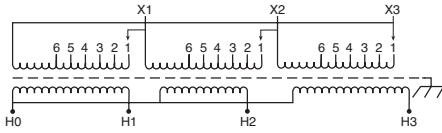
Design H



Design I

GENERAL TRANSFORMER™ WIRING DIAGRAMS

74 PRIMARY: 190/200/210/220/
230/240 Volts Del Δ
SECONDARY: 400Y/231 Volts

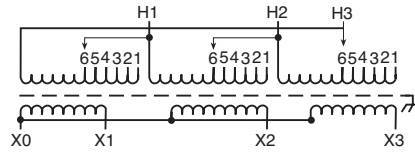


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
240	X1, X2, X3	1	
230	X1, X2, X3	2	
220	X1, X2, X3	3	
210	X1, X2, X3	4	
200	X1, X2, X3	5	
190	X1, X2, X3	6	

Secondary Volts

400			H1, H2, H3
231 1 phase			H1 to H0 H2 to H0 H3 to H0

75 PRIMARY: 190/200/210/220/
230/240 Volts Del Δ
SECONDARY: 400Y/231 Volts

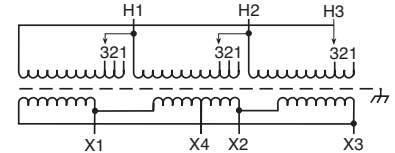


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
240	H1, H2, H3	1	
230	H1, H2, H3	2	
220	H1, H2, H3	3	
210	H1, H2, H3	4	
200	H1, H2, H3	5	
190	H1, H2, H3	6	

Secondary Volts

400			X1, X2, X3
231 1 phase			X1 to X0 X2 to X0 X3 to X0

76 PRIMARY: 400 Volts Del Δ
SECONDARY: 240 Volts Del Δ /120 Volts
TAPS: 2, 5% BNFC

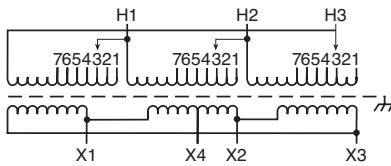


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
400	H1, H2, H3	1	
380	H1, H2, H3	2	
360	H1, H2, H3	3	

Secondary Volts

240			X1, X2, X3
120			X1 to X4 or X2 to X4

77 PRIMARY: 400 Volts Del Δ
SECONDARY: 240 Del Δ /120 Volts
TAPS: 2, 2 1/2% ANFC, 4, 2 1/2% BNFC

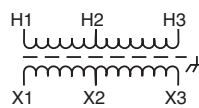


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
420	H1, H2, H3	1	
410	H1, H2, H3	2	
400	H1, H2, H3	3	
390	H1, H2, H3	4	
380	H1, H2, H3	5	
370	H1, H2, H3	6	
360	H1, H2, H3	7	

Secondary Volts

240			X1, X2, X3
120			X1 to X4 or X2 to X4

78 PRIMARY: 277/480 Volts
SECONDARY: 208/277 Volts
TAPS: NONE

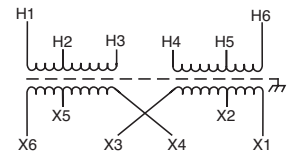


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
277	H1 & H2		
480	H1 & H3		

Secondary Volts

208			X1 to X2
277			X1 to X3

79 PRIMARY: 277/480 Volts
SECONDARY: 208/277 Volts
TAPS: NONE

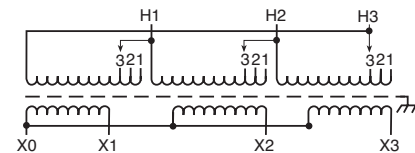


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
277	H1 - H5	H2 to H4	
480	H1 - H6	H3 to H4	

Secondary Volts

208			X2 to X4 X1 - X5
277			X3 to X4 X1 - X6

80 PRIMARY: 480 Volts Del Δ
SECONDARY: 208Y/120 Volts
TAPS: 1-5% ANFC & 1-5% BNFC

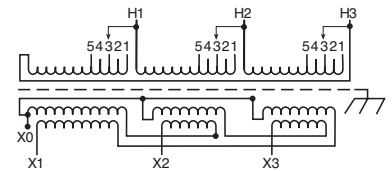


Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
504	H1, H2, H3	1	
480	H1, H2, H3	2	
456	H1, H2, H3	3	

Secondary Volts

208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0

81 PRIMARY: 480 Volts Del Δ
SECONDARY: 208Y/120 Volts
TAPS: 2, 2 1/2% ANFC, 2, 2 1/2% BNFC



Primary Volts	Connect Primary Lines To	Intr-Connect	Connect Secondary Lines To
504	H1, H2, H3	1	
492	H1, H2, H3	2	
480	H1, H2, H3	3	
468	H1, H2, H3	4	
456	H1, H2, H3	5	

Secondary Volts

208			X1, X2, X3
120 1 phase			X1 to X0 X2 to X0 X3 to X0