

SELECTION CHARTS

NEW

HARMONIC MITIGATING TRANSFORMERS



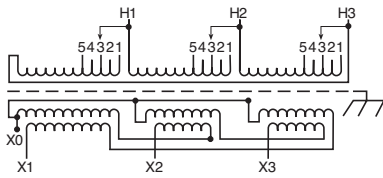
480 DELTA PRIMARY VOLTS — 208Y/120 SECONDARY VOLTS

KVA	CATALOG NO.	APPROX. DIMENSIONS ② Inches (Cm.)			APPROX. SHIP WEIGHT Lbs. (Kg.)	TYPE MTG. W – Wall F – Floor	WEATHER SHIELD P/N	Wiring Diagrams & Design Figures Begin on Page 146
		HEIGHT	WIDTH	DEPTH				
30.0	CMT-53312-4S	29.90 (75.9)	28.15 (71.5)	22.37 (56.8)	535 (242.7)	F ①	WS-A-2	81-E
45.0	CMT-53313-4S	29.90 (75.9)	28.15 (71.5)	22.37 (56.8)	600 (272.2)	F ①	WS-A-2	81-E
75.0	CMT-53314-4S	35.90 (91.2)	31.90 (81.0)	26.88 (68.3)	760 (344.7)	F ①	WS-A-3	81-E
112.5	CMT-53315-4S	41.52 (105.5)	32.90 (83.6)	29.88 (75.9)	1180 (535.2)	F	WS-A-4	81-E
150.0	CMT-53316-4S	41.52 (105.5)	32.90 (83.6)	29.88 (75.9)	1340 (607.8)	F	WS-A-4	81-E
225.0	CMT-53317-4S	41.52 (105.5)	32.90 (83.6)	29.88 (75.9)	1970 (893.6)	F	WS-A-4	81-E

MITIGATING TRANSFORMER WIRING DIAGRAM

81

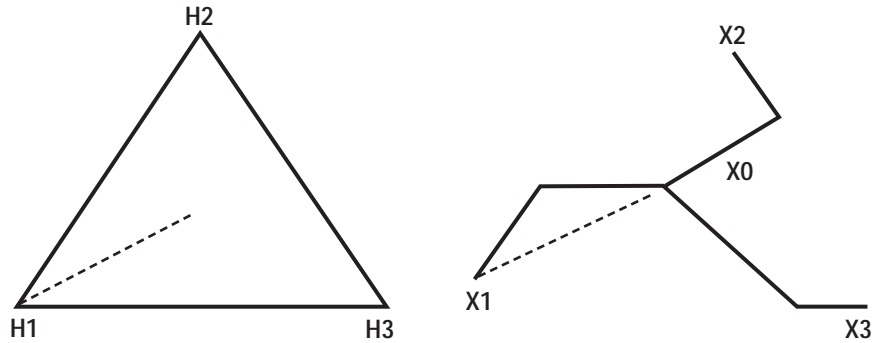
PRIMARY: 480 Volts Delta
SECONDARY: 208Y/120 Volts
TAPS: 2, 2 1/2% ANFC, 2, 2 1/2% BNFC



Primary Volts	Connect Primary Lines To	Inter-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

Diagram Showing Delta Primary & Zig-Zag Secondary

(Zero degree angular displacement)



Harmonic Mitigating Transformers - How do they work?

They consist of a Delta primary and a Zig-Zag secondary. The Zig-Zag secondary causes a phase shift in the triplen harmonics, which results in a canceling effect. This prevents

the triplen harmonic losses from being coupled back into the primary and results in cooler operation and increased energy efficiency.

The Acme Advantages

1. Acme utilizes special winding techniques and "foil" conductors in both its K-Factor and Harmonic Mitigating transformers to minimize the heating effects of harmonic currents.
2. The use of foil conductor increases the dielectric strength of the insulation because one layer is only one turn. Foil also eliminates the effects of axial forces, which can result in failure of wire wound transformers.