2016 Federal Pacific Transformer Quick Reference Guide

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2016 Transformer Naming Convention
(using T48LH2Y-75 as an example)

T	**Type**	T = Three Phase, Ventilated N = Three Phase, Encapsulated S = Single Phase, Ventilated P = Single Phase, Encapsulated K = Single Phase, Buck Boost
48	**Primary**	**Single or Three Phase** 20 = 208 24 = 240 48 = 480 60 = 600 Three phase primary windings will be Delta connected. **Single Phase Only** 1X = 120 x 240 2X = 240 x 480 27 = 277
LH	**Material/Temperature Rise**	**150° C / 115° C / 80° C** Aluminum Unshielded: LH / LF / LB Aluminum Shielded: SH / SF / SB Copper Shielded: CH / CF / CB Copper Unshielded: GH / GF / GB
2Y	**Secondary**	**Single Phase** 21 = 120/240 12 = 12/24 16 = 16/32 24 = 24/48 **Three Phase** 2Y = 208Y/120 2D = 240/(120LT)* 3Y = 380Y/220 40 = 400Y/231 42 = 480Y/277 * 120LT applies to ventilated units only
-	**Separator**	KVA Separator
75	**KVA**	
	(-K-Factor)	K1 = has no identifier K4 = K4 K13 = K13 K20 = K20
	-N/T	Applicable to encapsulated transformers only N = No Taps T = Taps

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Three Phase Ventilated Dry-Type Transformers							
Part Number = Family [-KVA] [-K Factor] (K Factor only required for K4, K13 and K20 products)							
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**K-Factor Available**	**Taps Available**
AL	150°C	N	208Δ-480Y 480Δ-208Y 480Δ-240Δ/120LT 480Δ-400Y 480Δ-480Y	T20LH42 T48LH2Y T48LH2D T48LH40 T48LH42	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	Y
		Y	208Δ-208Y 240Δ-208Y 480Δ-208Y 480Δ-240Δ/120LT 600Δ-208Y	T20SH2Y T24SH2Y T48SH2Y T48SH2D T60SH2Y	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
	115°C	N	208Δ-480Y 480Δ-208Y 480Δ-240Δ/120LT 480Δ-400Y 480Δ-480Y	T20LF42 T48LF2Y T48LF2D T48LF40 T48LF42	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
		Y	208Δ-208Y 240Δ-208Y 480Δ-208Y 480Δ-240Δ/120LT 600Δ-208Y	T20SF2Y T24SF2Y T48SF2Y T48SF2D T60SF2Y	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
	80°C	N	208Δ-480Y 480Δ-208Y 480Δ-240Δ/120LT 480Δ-400Y 480Δ-480Y	T20LB42 T48LB2Y T48LB2D T48LB40 T48LB42	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
		Y	208Δ-208Y 240Δ-208Y 480Δ-208Y 480Δ-240Δ/120LT 600Δ-208Y	T20SB2Y T24SB2Y T48SB2Y T48SB2D T60SB2Y	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
CU	150°C	Y	480Δ-208Y	T48CH2Y	15, 30, 45, 75, 112.5, 150, 225, 300, 500	K1, K4 K13, K20	
	115°C			T48CF2Y			
	80°C			T48CB2Y			

Three Phase Encapsulated Dry-Type Transformers							
Part Number = Family [-KVA]							
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**K-Factor Available**	**Taps Available**
CU	115°C	N	480Δ-208Y 480Δ-240Δ	N48GF2Y N48GF2D	3, 6	N/A	Y
		Y	240Δ-208Y 480Δ-208Y 480Δ-240Δ	N24CF2Y N48CF2Y N48CF2D			
AL	115°C	N	480Δ-208Y 480Δ-240Δ	N48LF2Y N48LF2D	9, 15		
		Y	240Δ-208Y 480Δ-208Y 480Δ-240Δ	N24SF2Y N48SF2Y N48SF2D			

Three Phase Ventilated Drive Isolation Dry-Type Transformers							
Part Number = [KVA] Family							
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**K-Factor Available**	**Taps Available**
AL	150°C	N	230Δ-230Y	AEMD	7.5, 11, 15, 20, 34, 40, 51, 63, 75, 93, 118, 145, 175, 220, 275, 330, 440, 550, 660, 750	K1	Y
			230Δ-460Y	AFMD			
			460Δ-230Y	CEMD			
			460Δ-460Y	CFMD			
			230Δ-575Y	AHMD			
			460Δ-575Y	CHMD			
			575Δ-230Y	DEMD			
			575Δ-460Y	DFMD			
			575Δ-575Y	DHMD			

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Single Phase Encapsulated Transformers						
Part Number = Family [-KVA] [-N/T] (P2X only for taps)						
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**Taps Available**
CU	115°C	N	120x240V - 120/240V 208V - 120/240V 277V - 120/240V	P1XGF21 P20GF21 P27GF21	1, 1.5, 2, 3	N Y Y
			240x480V - 120/240V	P2XGF21	0.05, 0.1, 0.15, 0.25, 0.5, 0.75, 1, 2	N
					3	[-T]
			480V - 120/240V 600V - 120/240V	P48GF21 P60GF21	1, 1.5, 2, 3	Y
		Y	240x480V - 120/240V	P2XCF21	3	N
AL	115°C	N	120x240V - 120/240V 208V - 120/240V 277V - 120/240V 240x480V - 120/240V 480V - 120/240V	P1XLF21 P20LF21 P27LF21 P2XLF21 P48LF21	5, 7.5, 10, 15	N Y Y [-T] (All), [-N] (7.5-15 KVA) Y
		Y	240x480V - 120/240V	P2XSF21	5	N
			600V - 120/240V	P60SF21	5, 7.5, 10, 15	Y

Single Phase Ventilated Dry-Type Transformers						
Part Number = Family [-KVA]						
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**Taps Available**
AL	150°C	N	240x480V - 120/240V	S2XLH21	15, 25, 37, 50, 75, 100, 167	Y
		Y	600V - 120/240V	S60SH21		
CU	150°C	N	240x480V - 120/240V	S2XGH21		
		Y		S2XCH21		

Single Phase Encapsulated Buck-Boost Transformers						
Part Number = Family [-KVA]						
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**Taps Available**
CU	115°C	N	120x240V - 12/24V 120x240V - 16/32V 240x480V - 24/48V	K1XGF12 K1XGF16 K2XGF24	0.05, 0.1, 0.15, 0.25, 0.5, 0.75, 1, 2, 3	N
AL	115°C	N	120x240V - 12/24V 120x240V - 16/32V 240x480V - 24/48V	K1XLF12 K1XLF16 K2XLF24	5	

Single Phase FEC Epoxy Encapsulated (Industrial Control) Transformers						
Part Number = Family [KVA] [Suffix]						
Conductor	**Temp Rise (Celsius)**	**Electrostatic Shield**	**Primary/Secondary**	**Family**	**KVA Available**	**Taps Available**
CU	55°C	N	240x480V - 120V 230x460V - 115V 220x440V - 110V	FA[KVA]JK	0.50, 0.75, 0.100, 0.150, 0.200, 0.250, 0.300, 0.350, 0.500, 0.750	N
			240x480V - 24V	FB[KVA]JK		
			120x240V - 24V	FC[KVA]JK		
			208/277V - 120V	FF[KVA]XK		
			200/220/440V - 23/110V 208/230/460V - 24/115V 240/480V - 25/120V	FJ[KVA]XK		
			240x480V - 120V	FK[KVA]JJ		

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