

# K-Factor Transformers

## THREE PHASE

60 Hertz

### TRANSFORMERS

( 2 ) 2½% FCAN & ( 4 ) 2½% FCBN Taps  
 150°C, 115°C ( or Optional 80°C) Temperature Rise  
 220°C Insulation System  
 Ventilated NEMA-2 Construction  
 Indoor Installations ( or Add W/S for Outdoor )

	150°C Temperature Rise			115°C Temperature		
	K-Factor 4	K-Factor 13	K-Factor 20	K-Factor 4	K-Factor 13	K-Factor 20
Primary	480 Delta	480 Delta	480 Delta	480 Delta	480 Delta	480 Delta
Secondary	208Y/120	208Y/120	208Y/120	208Y/120	208Y/120	208Y/120

KVA Size	Catalog Number			Catalog Number		
15.0	3PT40-15K4	3PT40-15K13	3PT40-15K20	3PT40-15FK4	3PT40-15FK13	3PT40-15FK20
30.0	3PT40-30K4	3PT40-30K13	3PT40-30K20	3PT40-30FK4	3PT40-30FK13	3PT40-30FK20
45.0	3PT40-45K4	3PT40-45K13	3PT40-45K20	3PT40-45FK4	3PT40-45FK13	3PT40-45FK20
75.0	3PT40-75K4	3PT40-75K13	3PT40-75K20	3PT40-75FK4	3PT40-75FK13	3PT40-75FK20
112.5	3PT40-112.5K4	3PT40-112.5K13	3PT40-112.5K20	3PT40-112.5FK4	3PT40-112.5FK13	3PT40-112.5FK20
150.0	3PT40-150K4	3PT40-150K13	3PT40-150K20	3PT40-150FK4	3PT40-150FK13	3PT40-150FK20
225.0	3PT40-225K4	3PT40-225K13	3PT40-225K20	3PT40-225FK4	3PT40-225FK13	3PT40-225FK20
300.0	3PT40-300K4	3PT40-300K13	3PT40-300K20	3PT40-300FK4	3PT40-300FK13	3PT40-300FK20
500.0	3PT40-500K4	3PT40-500K13	3PT40-500K20	3PT40-500FK4	3PT40-500FK13	3PT40-500FK20

Note: All Transformers are Electrostatically Shielded

Maximum Harmonic Current Distortion in % of I <sub>E</sub>						
Individual Harmonic Order (Odd Harmonics)						
I <sub>sc</sub> / I <sub>E</sub>	< 11	11 < h < 17	17 < h < 23	23 < h < 35	35 < h	TDD
< 20 *	4.0	2.0	1.5	0.6	0.3	5.0
20 < 50	7.0	3.5	2.5	1.0	0.5	8.0
50 < 100	10.0	4.5	4.0	1.5	0.7	12.0
100 < 1000	12.0	5.5	5.0	2.0	1.0	15.0
> 1000	15.0	7.0	6.0	2.5	1.4	20.0

Shown above is a representation of Table 10.3 from IEEE Standard 519-1992

Even harmonics are limited to 25% of the odd harmonic limits. TDD refersto Total Demand Distortion and is based on the average maximum demand current at the fundamental frequency, taken at the PCC.

\* All power generation equipment is limited to these vaules of current distortion regardless of I<sub>sc</sub>/I<sub>E</sub>

I<sub>sc</sub> = Maximum Short Circuit Current at the PCC  
 I<sub>E</sub> = Maximum demand load current ( fundamental ) at the PCC  
 h = Harmonic Number

Transformers with any other KVA ratings and/or voltage combinations are available upon request.



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