

# Dry type transformer data

This transformer data card is designed to provide a handy reference for those who need to select and apply dry type transformers.

## Minimum data needed to select a transformer

- Load voltage (secondary voltage)
- Load requirement
  - Three-phase (three wire or four wire)
  - Single-phase (two wire or three wire)  
(load always determines phase of transformer)
- Load current (use table to convert to kVA or formula)
  - Single-phase formula: Volts x Current = VA
  - Three-phase formula: Volts x Current x  $\sqrt{3}$
- System voltage and frequency (primary voltage)
- Mounting location

## Specific applications:

- Feeding distribution panel
  - Energy efficient transformer
  - [www.us.squared.com/eexfmr](http://www.us.squared.com/eexfmr)
- Feeding distribution panel with harmonic content
  - Non-linear energy efficient transformer
- Feeding multiple distribution panels with harmonic content
  - Harmonic mitigation energy efficient transformers
- Small change in voltage
  - Use buck and boost transformer
  - [www.us.squared.com/buckboost](http://www.us.squared.com/buckboost)

Schneider Electric will build most special dry type transformers that your application requires.



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## Single-phase transformers

KVA Rating	Amperes			
	120 V	240 V	480 V	600 V
1	8.33	4.17	2.08	1.67
1.5	12.5	6.25	3.13	2.50
2	16.7	8.33	4.17	3.33
3	25.0	12.5	6.25	5.00
5	41.7	20.8	10.4	8.33
7.5	62.5	31.3	15.6	12.5
10	83.3	41.7	20.8	16.7
15	125	62.5	31.3	25.0
25	208	104	52.1	41.7
37.5	313	156	78.1	62.5
50	417	208	104	83.3
75	625	313	156	125
100	833	417	208	167
167	1392	696	348	278
250	2083	1042	521	417
333	2775	1388	694	555
500	4167	2063	1042	833

Note: Voltages are line to line.

## Three-phase transformers

KVA Rating	Amperes						
	208 V	240 V	480 V	600 V	2400 V	4160 V	4800 V
3	8.33	7.22	3.61	2.89	-	-	-
6	16.7	14.4	7.22	5.78	-	-	-
9	25.0	21.7	10.8	8.66	-	-	-
15	41.6	36.1	18.0	14.4	-	-	-
30	83.3	72.2	36.1	28.9	-	-	-
45	125	108	54.1	43.3	-	-	-
75	208	180	90.2	72.2	-	-	-
112.5	312	271	135	108	27.1	15.6	13.5
150	416	361	180	144	36.1	20.8	18.0
225	625	541	271	217	54.1	31.2	27.1
300	833	722	361	289	72.2	41.6	36.1
500	1388	1203	601	481	120	69.4	60.1
750	2082	1804	902	722	180	104	90.2
1000	2776	2406	1203	962	241	139	120
1500	4164	3609	1804	1443	361	208	180
2000	5552	4811	2406	1925	481	278	241
2500	6940	6014	3007	2406	601	347	301
3750	10409	9021	4511	3609	902	520	451

Note: Voltages are line to line.