1 - Phase
0.8 POWER FACTOR (LAG)

KVA/KW AMP CHART

50 Hertz
COMMON VOLTAGE RATINGS

KVA	KW	AMPS PER TERMINAL							
		L-L	100V	110V	115V	120V	220V	230V	240V
0.500	0.400	5		4.5	4.3	4.2	2.3	2.2	2.1
1.0	0.800	10		9.1	8.7	8.3	4.5	4.3	4.2
2	1.6	20		18	17	17	9	8.7	8.3
3	2.4	30		27	26	25	13.6	13	12.5
5	4	50		45	43	42	23	22	21
8	6.4	80		73	70	67	36	35	33
10	8	100		91	87	83	45	43	42
12	9.6	120		109	104	100	55	52	50
15	12	150		136	130	125	68	65	63
18	14.4	180		164	157	150	82	78	75
20	16	200		182	174	167	91	87	83
26	21	260		236	226	217	118	113	108
30	24	300		273	261	250	136	130	125
39	31	390		355	339	325	177	170	163
52	42	520		473	452	433	236	226	217

Chart Notes:
- L-L identifies voltage level as measured from Line to Line.
- Power Factor PF = KW / KVA, and is the ratio of True Power to Apparent Power.
- Power Factor Rating: Amps shown above are at 0.8PF rating. Actual load PF may differ.
- Abbreviations: KVA: Kilo Volt Amperes; KW: Kilowatts; PF: Power Factor; L-L: Line to Line

Chart Instructions:

Find KVA & KW Rating

To find the KVA or KW rating (at 0.8PF) for your application, select the 50HZ single phase L-L (line to line) voltage level being utilized. Scan down this column to the current needed for your application (select the next higher current rating for more margin). Scan the row to the left and find the KVA and KW rating needed.

Find Current Rating

To find the phase current rating if the 50HZ load KW or KVA is known, select the known KVA or KW rating on the chart above. Scan across the row to the right until the single phase L-L (line to line) voltage being utilized column is reached.

Useful Electrical Formulas

$$KVA = \frac{Volts \times Amps}{1{,}000}$$

$$KW = KVA \times Power\ Factor\ (PF)$$

$$Amps\ (When\ KVA\ is\ Known) = \frac{KVA \times 1{,}000}{Volts}$$

$$Amps\ (When\ KW\ is\ Known) = \frac{KW \times 1{,}000}{Volts \times Power\ Factor\ (PF)}$$

Disclaimer: The content herein is provided for informational purposes only. For technical assistance with your specific 50HZ needs, contact AP&C application engineers.

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605 E Alton Ave Ste A, Santa Ana, CA 92705
Tel 714-540-9010 • Fax 714-540-5313
www.FrequencyConverterRental.com