

TABLE - 4 : MAXIMUM CURRENT AT VARIOUS POWER FACTORS FOR 415V ALTERNATOR (3 PHASE)

SN	KVA	KW	Current @ 0.8PF		Current @ 0.85PF		Current @ 0.9PF		Current @ 0.95PF		Current @ 1.0PF	
			100% Load	80% Load	100% Load	80% Load	100% Load	80% Load	100% Load	80% Load	100% Load	80% Load
1	2000	1600	2782	2226	2619	2095	2473	1979	2343	1875	2226	1781
2	1875	1500	2609	2087	2455	1964	2319	1855	2197	1757	2087	1669
3	1500	1200	2087	1669	1964	1571	1855	1484	1757	1406	1669	1336
4	1250	1000	1739	1391	1637	1309	1546	1237	1464	1172	1391	1113
5	1000	800	1391	1113	1309	1048	1237	989	1172	937	1113	890
6	750	600	1043	835	982	786	927	742	879	703	835	668
7	625	500	870	696	818	655	773	618	732	586	696	556
8	500	400	696	556	655	524	618	495	586	469	556	445
9	450	360	626	501	589	471	556	445	527	422	501	401
10	380	304	529	423	498	398	470	376	445	356	423	338
11	320	256	445	356	419	335	396	317	375	300	356	285
12	285	228	397	317	373	299	352	282	334	267	317	254
13	250	200	348	278	327	262	309	247	293	234	278	223
14	225	180	313	250	295	236	278	223	264	211	250	200
15	200	160	278	223	262	210	247	198	234	187	223	178
16	180	144	250	200	236	189	223	178	211	169	200	160
17	160	128	223	178	210	168	198	158	187	150	178	142
18	140	112	195	156	183	147	173	139	164	131	156	125
19	125	100	174	139	164	131	155	124	146	117	139	111
20	100	80	139	111	131	105	124	99	117	94	111	89
21	82.5	66	115	92	108	86	102	82	97	77	92	73
22	62.5	50	87	70	82	65	77	62	73	59	70	56
23	50	40	70	56	65	52	62	49	59	47	56	45
24	45	36	63	50	59	47	56	45	53	42	50	40
25	40	32	56	45	52	42	49	40	47	37	45	36
26	35	28	49	39	46	37	43	35	41	33	39	31
27	30	24	42	33	39	31	37	30	35	28	33	27
28	25	20	35	28	33	26	31	25	29	23	28	22
29	20	16	28	22	26	21	25	20	23	19	22	18
30	15	12	21	17	20	16	19	15	18	14	17	13

Note : 1. For H.T. alternators, please refer manufactures specifications.

2. Resistive and water loads have unity power factor.