

# LOAD INERTIA TABLES, SQUIRREL-CAGE INDUCTION MOTORS

Refer to the “High Inertia Load” option

Load WK2 (Exclusive of Motor WK2), Lb-Ft2

HP	Synchronous Speed RPM @ 60 Hertz						
	3600	1800	1200	900	720	600	514
1	1.2	5.8	15	31	53	82	118
1.5	1.8	8.6	23	45	77	120	174
2	2.4	11	30	60	102	158	228
3	3.5	17	44	87	149	231	335
5	5.7	27	71	142	242	375	544
7.5	8.3	39	104	208	356	551	798
10	11	51	137	273	467	723	1048
15	16	75	200	400	685	1061	1538
20	21	99	262	525	898	1393	2018
25	26	122	324	647	1108	1719	2491
30	31	144	384	769	1316	2042	2959
40	40	189	503	1007	1725	2677	3881
50	49	232	620	1241	2127	3302	4788
60	58	275	735	1473	2524	3919	5680
75	71	338	904	1814	3111	4831	7010
100	92	441	1181	2372	4070	6320	9180
125	113	542	1452	2919	5010	7790	11310
150	133	640	1719	3456	5940	9230	13410
200	172	831	2238	4508	7750	12060	17530
250	210	1017	2744	5540	9530	14830	21560
300	246	1197	3239	6540	11270	17550	25530
350	281	1373	3723	7530	12980	20230	29430
400	315	1546	4199	8500	14670	22870	33280

HP	Synchronous Speed RPM @ 50 Hertz						
	3000	1500	1000	750	600	500	430
1	1.9	9.0	24	48	82	126	183
1.5	2.8	13	35	70	120	186	269
2	3.7	17	46	92	158	244	353
3	5.4	26	68	135	231	358	519
5	8.8	41	110	220	375	582	842
7.5	13	61	161	322	551	854	1237
10	17	80	212	423	723	1121	1624
15	25	117	310	620	1061	1646	2384
20	32	153	407	814	1393	2160	3129
25	40	189	502	1004	1719	2666	3864
30	47	224	596	1193	2041	3167	4589
40	62	293	781	1563	2677	4153	6020
50	76	361	963	1928	3302	5124	7429
60	90	428	1142	2287	3919	6083	8820
75	111	527	1406	2818	4831	7501	10879
100	144	687	1838	3687	6324	9823	14252
125	177	844	2261	4540	7790	12105	17566
150	208	998	2676	5378	9233	14352	20833
200	270	1298	3489	7021	12064	18764	27250
250	329	1590	4282	8626	14834	23086	33541
300	387	1874	5058	10200	17554	27333	39728
350	443	2152	5819	11748	20231	31517	45826
400	497	2425	6567	13272	22870	35644	51846

† All marks shown within this document are properties of their respective owners.

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