

TABLE 2: SUGGESTED MAXIMUM CAPACITOR RATINGS USED FOR HIGH EFFICIENCY MOTORS AND OLDER DESIGN (PRE "T-FRAMES") MOTORS*

Induction Motor Horsepower Rating	No. of Poles and Nominal Motor Speed in RPM											
	2 3600 RPM		4 1800 RPM		6 1200 RPM		8 900 RPM		10 720 RPM		12 600 RPM	
	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %
3	1.5	14	1.5	15	1.5	20	2	27	2.5	35	3	41
5	2	12	2	13	2	17	3	25	4	32	4	37
7.5	2.5	11	2.5	12	3	15	4	22	5	30	6	34
10	3	10	3	11	3	14	5	21	6	27	7.5	31
15	4	9	4	10	5	13	6	18	8	23	9	27
20	5	9	5	10	6	12	7.5	16	9	21	12.5	25
25	6	9	6	10	7.5	11	9	15	10	20	15	23
30	7	8	7	9	9	11	10	14	12.5	18	17.5	22
40	9	8	9	9	10	10	12.5	13	15	16	20	20
50	12.5	8	10	9	12.5	10	15	12	20	15	25	19
60	15	8	15	8	15	10	17.5	11	22.5	15	27.5	19
75	17.5	8	17.5	8	17.5	10	20	10	25	14	35	18
100	22.5	8	20	8	25	9	27.5	10	35	13	40	17
125	27.5	8	25	8	30	9	30	10	40	13	50	16
150	30	8	30	8	35	9	37.5	10	50	12	50	15
200	40	8	37.5	8	40	9	50	10	60	12	60	14
250	50	8	45	7	50	8	60	9	70	11	75	13
300	60	8	50	7	60	8	60	9	80	11	90	12
350	60	8	60	7	75	8	75	9	90	10	95	11
400	75	8	60	6	75	8	85	9	95	10	100	11
450	75	8	75	6	80	8	90	9	100	9	110	11
500	75	8	75	6	85	8	100	9	100	9	120	10

* For use with 3-phase, 60 hertz NEMA Classification B Motors to raise full load power factor to approximately 95%

TABLE 3: SUGGESTED MAXIMUM CAPACITOR RATINGS "T-FRAME" NEMA "DESIGN B" MOTORS*

Induction Motor Horsepower Rating	No. of Poles and Nominal Motor Speed in RPM											
	2 3600 RPM		4 1800 RPM		6 1200 RPM		8 900 RPM		10 720 RPM		12 600 RPM	
	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %	Capacitor KVAR	Current Reduction %
2	1	14	1	24	1.5	30	2	42	2	40	3	50
3	1.5	14	1.5	23	2	28	3	38	3	40	4	49
5	2	14	2.5	22	3	26	4	31	4	40	5	49
7.5	2.5	14	3	20	4	21	5	28	5	38	6	45
10	4	14	4	18	5	21	6	27	7.5	36	8	38
15	5	12	5	18	6	20	7.5	24	8	32	10	34
20	6	12	6	17	7.5	19	9	23	10	29	12.5	30
25	7.5	12	7.5	17	8	19	10	23	12.5	25	17.5	30
30	8	11	8	16	10	19	15	22	15	24	20	30
40	12.5	12	15	16	15	19	17.5	21	20	24	25	30
50	15	12	17.5	15	20	19	22.5	21	22.5	24	30	30
60	17.5	12	20	15	22.5	17	25	20	30	22	35	28
75	20	12	25	14	25	15	30	17	35	21	40	19
100	22.5	11	30	14	30	12	35	16	40	15	45	17
125	25	10	35	12	35	12	40	14	45	15	50	17
150	30	10	40	12	40	12	50	14	50	13	60	17
200	35	10	50	11	50	11	70	14	70	13	90	17
250	40	11	60	10	60	10	80	13	90	13	100	17
300	45	11	70	10	75	12	100	14	100	13	120	17
350	50	12	75	8	90	12	120	13	120	13	135	15
400	75	10	80	8	100	12	130	13	140	13	150	15
450	80	8	90	8	120	10	140	12	168	14	160	15
500	100	8	120	9	150	12	160	12	180	13	180	15

* For use with 3-phase, 60 hertz NEMA Classification B Motors to raise full load power factor to approximately 95%