

Table 430.250 Full-Load Current, Three-Phase Alternating-Current Motors

The following values of full-load currents are typical for motors running at speeds usual for belted motors and motors with normal torque characteristics.

The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110 to 120, 220 to 240, 440 to 480, and 550 to 600 volts.

Horsepower	Induction-Type Squirrel Cage and Wound Rotor (Amperes)						Synchronous-Type Unity Power Factor* (Amperes)					
	115 Volts	200 Volts	208 Volts	230 Volts	460 Volts	575 Volts	2300 Volts	230 Volts	460 Volts	575 Volts	2300 Volts	
1/2	4.4	2.5	2.4	2.2	1.1	0.9	—	—	—	—	—	
3/4	6.4	3.7	3.5	3.2	1.6	1.3	—	—	—	—	—	
1	8.4	4.8	4.6	4.2	2.1	1.7	—	—	—	—	—	
1 1/2	12.0	6.9	6.6	6.0	3.0	2.4	—	—	—	—	—	
2	13.6	7.8	7.5	6.8	3.4	2.7	—	—	—	—	—	
3	—	11.0	10.6	9.6	4.8	3.9	—	—	—	—	—	
5	—	17.5	16.7	15.2	7.6	6.1	—	—	—	—	—	
7 1/2	—	25.3	24.2	22	11	9	—	—	—	—	—	
10	—	32.2	30.8	28	14	11	—	—	—	—	—	
15	—	48.3	46.2	42	21	17	—	—	—	—	—	
20	—	62.1	59.4	54	27	22	—	—	—	—	—	
25	—	78.2	74.8	68	34	27	—	—	—	—	—	
30	—	92	88	80	40	32	—	—	—	—	—	
40	—	120	114	104	52	41	—	—	—	—	—	
50	—	150	143	130	65	52	—	104	52	42	—	
60	—	177	169	154	77	62	16	123	61	49	12	
75	—	221	211	192	96	77	20	155	78	62	15	
100	—	285	273	248	124	99	26	202	101	81	20	
125	—	359	343	312	156	125	31	253	126	101	25	
150	—	414	396	360	180	144	37	302	151	121	30	
200	—	552	528	480	240	192	49	400	201	161	40	
250	—	—	—	—	302	242	60	—	—	—	—	
300	—	—	—	—	361	289	72	—	—	—	—	
350	—	—	—	—	414	336	83	—	—	—	—	
400	—	—	—	—	477	382	95	—	—	—	—	
450	—	—	—	—	515	412	103	—	—	—	—	
500	—	—	—	—	590	472	118	—	—	—	—	

*For 90 and 80 percent power factor, the figures shall be multiplied by 1.1 and 1.25, respectively.

Table 430.251(A) Conversion Table of Single-Phase Locked-Rotor Currents for Selection of Disconnecting Means and Controllers as Determined from Horsepower and Voltage Rating

For use only with 430.110, 440.12, 440.41, and 455.8(C).

Rated Horsepower	115 Volts	208 Volts	230 Volts
Maximum Locked-Rotor Current in Amperes, Single Phase			

Table 430.251(B) Conversion Table of Polyphase Disconnecting Means and Controllers as Determined from Horsepower and Voltage Rating

For use only with 430.110, 440.12, 440.41 and 455.8(C).

Rated Horsepower	Maximum Motor Lockout	
	115 Volts	200 Volts
1/2	40	23
3/4	50	28.8
1	60	34.5
1 1/2	80	46
2	100	57.5
3	—	73.6
5	105.8	—
7 1/2	—	10
10	15	186.3
15	20	267
20	25	334
25	30	420
30	500	—
40	667	—
50	60	834
60	75	1001
75	100	1248
100	1668	—
125	2087	—
150	2496	—
200	3335	—
250	250	—
300	300	—
350	350	—
400	400	—
450	450	—
500	500	—

*Design A motors are not limited to a maximum starting current.