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			_		_
11/2	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	_				_
71/2	_	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	_	53	26	21	_
30	_	92	88	80	40	32		63	32	26	_
40	_	120	114	104	52	41	_	83	41	33	
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).

	Maximum Locked-Rotor Current in Amperes, Single Phase					
Rated Horsepower	115 Volts	208 Volts	230 Volts			
1/2	58.8	32.5	29.4			
3/4	82.8	45.8	41.4			
1	96	53	48			
11/2	120	66	60			
2	144	80	72			
3	204	113	102			
5	336	186	168			
71/2	480	265	240			
10	600	332	300			

NATIONAL ELECTRICAL CODE 2011 Edition

Table 430.248 Full-Load Currents in Amperes, Single-Phase Alternating-Current Motors

The following values of full-load currents are for motors running at usual speeds 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 and 220 to 240 volts.

Horsepower	115 Volts	200 Volts	208 Volts	230 Volts
1/6	4.4	2.5	2.4	2.2
1/4	5.8	3.3	3.2	2.9
1/3	7.2	4.1	4.0	3.6
1/2	9.8	5.6	5.4	4.9
3/4	13.8	7.9	7.6	6.9
1	16	9.2	8.8	8.0
11/2	20	11.5	11.0	10
2	24	13.8	13.2	12
3	34	19.6	18.7	17
5	56	32.2	30.8	28
71/2	80	46.0	44.0	40
10	100	57.5	55.0	50

Table 430.249 Full-Load Current, Two-Phase Alternating-Current Motors (4-Wire)

The following values of full-load current are for motors running at speeds usual for belted motors and motors with normal torque characteristics. Current in the common conductor of a 2-phase, 3-wire system will be 1.41 times the value given. 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.

	Induction-Type Squirrel Cage and Wound Rotor (Amperes)						
Horsepower	115 Volts	230 Volts	460 Volts	575 Volts	2300 Volts		
1/2	4.0	2.0	1.0	0.8	_		
3/4	4.8	2.4	1.2	1.0	_		
· 1	6.4	3.2	1.6	1.3	_		
11/2	9.0	4.5	2.3	1.8	_		
2	11.8	5.9	3.0	2.4	_		
2 3 5		8.3	4.2	3.3	_		
	_	13.2	6.6	5.3	_		
71/2	_	19	9.0	8.0			
10	_	24	12	10			
15	_	36	18	14	_		
20	_	47	23	19	_		
25	_	59	29	24	_		
30	_	69	35	28	_		
40	_	90	45	36	_		
50		113	56	45			
60		133	67	53	14		
75		166	83	66	18		
100	_	218	109	87	23		
125	_	270	135	108	28		
150	_	312	156	125	32		
200	_	416	208	167	43		

70-337