

TABLE 430.247 Full-Load Current in Amperes, Direct-Current Motors

The following values of full-load currents* are for motors running at base speed.

Horsepower	Armature Voltage Rating*					
	90 Volts	120 Volts	180 Volts	240 Volts	500 Volts	550 Volts
¼	4.0	3.1	2.0	1.6	—	—
⅓	5.2	4.1	2.6	2.0	—	—
½	6.8	5.4	3.4	2.7	—	—
¾	9.6	7.6	4.8	3.8	—	—
1	12.2	9.5	6.1	4.7	—	—
1½	—	13.2	8.3	6.6	—	—
2	—	17	10.8	8.5	—	—
3	—	25	16	12.2	—	—
5	—	40	27	20	—	—
7½	—	58	—	29	13.6	12.2
10	—	76	—	38	18	16
15	—	—	—	55	27	24
20	—	—	—	72	34	31
25	—	—	—	89	43	38
30	—	—	—	106	51	46
40	—	—	—	140	67	61
50	—	—	—	173	83	75
60	—	—	—	206	99	90
75	—	—	—	255	123	111
100	—	—	—	341	164	148
125	—	—	—	425	205	185
150	—	—	—	506	246	222
200	—	—	—	675	330	294

*These are average dc quantities.

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
¼	4.4	2.5	2.4	2.2
⅓	5.8	3.3	3.2	2.9
½	7.2	4.1	4.0	3.6
¾	9.8	5.6	5.4	4.9
1	13.8	7.9	7.6	6.9
1½	16	9.2	8.8	8.0
2	20	11.5	11.0	10
3	24	13.8	13.2	12
5	34	19.6	18.7	17
7½	56	32.2	30.8	28
10	80	46.0	44.0	40
15	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, 550 to 600, and 2300 to 2400 volts.

Horsepower	Induction-Type Squirrel Cage and Wound Rotor (Amperes)				
	115 Volts	230 Volts	460 Volts	575 Volts	2300 Volts
¼	4.0	2.0	1.0	0.8	—
⅓	4.8	2.4	1.2	1.0	—
½	6.4	3.2	1.6	1.3	—
¾	9.0	4.5	2.3	1.8	—
1	11.8	5.9	3.0	2.4	—
1½	—	8.3	4.2	3.3	—
2	—	13.2	6.6	5.3	—
3	—	19	9.0	8.0	—
5	—	24	12	10	—
7½	—	36	18	14	—
10	—	47	23	19	—
15	—	59	29	24	—
20	—	69	35	28	—
25	—	90	45	36	—
30	—	113	56	45	—
40	—	133	67	53	14
50	—	166	83	66	18
60	—	218	109	87	23
75	—	270	135	108	28
100	—	312	156	125	32
125	—	416	208	167	43
150	—	—	—	—	—
200	—	—	—	—	—