

Motor Voltage and Amp Load

Single phase AC Motors Full-Load Current in Amperes (see Notes (1) to (4))

HP Rating	115 V	230 V
1/6	4.4	2.2
1/4	5.8	2.9
1/3	7.2	3.6
1/2	9.8	4.9
3/4	13.8	6.9
1	16	8
1 1/2	20	10
2	24	12
3	34	17
5	56	28
7 1/2	80	40
10	100	50

Notes:

1. For full-load currents of 208 and 200 V motors, increase the corresponding 230 V motor full-load current by 10 and 15% respectively.
2. These values of motor full-load current are to be used as guides only. Where exact values are required (e.g., for motor protection), always use those appearing on the motor nameplate.
3. These values of full-load current are for motors running at usual speeds and motors with normal torque characteristics. Motors built for especially low speeds or high torques may have higher full-load currents, and multi speed motors will have full-load current varying with speed, in which case the nameplate current ratings shall be used.
4. The voltages listed are rated motor voltages. Corresponding Nominal System Voltages are 120 and 240 V. Refer to CSA Standard CAN3-C235-M83, Preferred Voltage Level for AC Systems, 0 to 50,000 volts.

Three-phase AC Motors Full-Load Current in Amperes
Induction Type, Squirrel Cage and Wound Rotor

HP Rating	115 V	230 V	460 V	575 V	2300 V
1/2	4	2	1	0.8	
1/4	5.6	2.8	1.4	1.1	
1	7.2	3.6	1.8	1.4	
1 1/2	10.4	5.2	2.6	2.1	
2	13.6	6.8	3.4	2.7	
3		9.6	4.8	3.9	
5		15.2	7.6	6.1	
7 1/2		22	11	9	
10		28	14	11	
15		42	21	17	
20		54	27	22	
25		68	34	27	
30		80	40	32	
40		104	52	41	
50		130	65	52	
60		154	77	62	16
75		192	96	77	20
100		248	124	99	26