



Application - Three-Phase Motors

TABLE 17 Three-Phase Motor Specifications (50 Hz), 2875 RPM, 1.0 Service Factor

Type	Motor Model Prefix	Nameplate Rating					Full Load Watts	Line to Line Resistance (Ohms)	Efficiency %			Power Factor %			Locked Rotor Amps	Circuit Breakers or Fuse Amps	
		KW	HP	Volts	Line Volts	Amps**			F.L.	3/4	1/2	F.L.	3/4	1/2		Typical Submersible	
																Nontime Delay (Std.) Fuse or Circuit Breaker	Dual Element Time Delay Fuse
6 Inch	236 610	3.7	5	380-415	380 400 415	8.9 8.8 9.3	4850 4900 4950	3.9 - 4.8	77 77 75	76 71 73	73 59 67	84 79 74	78 71 64	66 59 52	39 42 43	25 25 25	10 10 10
	236 611	5.5	7 1/2	380-415	380 400 415	12.7 12.5 12.8	7175 7100 7175	2.4 - 2.9	78 79 78	79 78 77	77 74 74	85 80 78	80 75 70	70 63 57	61 64 66	35 35 35	15 15 15
	236 612	7.5	10	380-415	380 400 415	16.5 16.0 16.2	9450 9450 9450	1.9 - 2.4	79 79 79	80 79 78	77 75 75	87 86 81	83 80 74	74 70 62	83 83 91	45 45 45	20 20 20
	236 613	11	15	380-415	380 400 415	24.2 23.0 24.1	13750 13750 13750	1.1 - 1.4	81 81 81	82 80 80	80 78 77	87 84 82	82 80 75	72 64 63	126 125 133	60 60 60	30 30 30
	236 614	15	20	380-415	380 400 415	32.0 31.3 31.0	18200 18500 18500	.83 - 1.0	82 81 81	83 81 81	81 79 77	87 85 83	84 80 80	75 69 65	164 170 174	80 80 80	35 35 35
	236 615	18.5	25	380-415	380 400 415	40.0 38.5 38.5	23000 22700 22700	.62 - .77	81 82 82	83 83 82	82 81 80	89 85 82	85 79 75	76 68 62	197 206 215	100 100 100	45 45 45
	236 616	22	30	380-415	380 400 415	47.0 45.3 45.5	27250 27000 27000	.52 - .64	82 83 83	83 83 82	82 81 80	88 86 84	86 81 78	78 71 66	255 268 278	125 125 125	55 55 55
	236 617	30	40	380-415	380 400 415	64.1 63.5 64.6	36000 36000 36000	.34 - .42	83 83 83	84 84 82	83 82 80	87 82 79	82 83 71	72 64 58	362 382 397	175 175 175	75 75 75
	276 698	37	50	415	415	76.6	45000	.34 - .43	82	84	83	85	90	91	362	200	90
	276 699	45	60	415	415	87.9	54000	.27 - .35	84	84	82	87	84	76	432	250	110
8 Inch	239 600	30	40	380-415	380 400 415	61.0 61.0 62.0	34700 34700 34700	.247 - .303	86 86 86	86 85 82	85 83 80	88 84 78	84 78 62	75 68 62	397 418 433	175 175 175	70 70 70
	239 601	37	50	380-415	380 400 415	75.0 74.0 74.0	43000 43000 43000	.185 - .226	87 87 87	87 86 83	85 84 83	89 86 81	85 76 66	78 66 654	507 200 200	200 200 200	90 90 90
	239 602	45	60	380-415	380 400 415	89.0 89.0 89.0	51500 51500 51500	.142 - .174	87 87 87	87 86 84	86 85 82	89 85 76	85 71 65	77 645 669	250 250 250	100 100 100	
	239 603	55	75	380-415	380 400 415	111.0 108.0 108.0	64000 64000 64000	.106 - .130	88 88 88	88 87 84	86 85 84	89 87 78	86 72 66	79 862 895	819 300 300	300 300 300	125 125 125
	239 604	75	100	380-415	380 400 415	148.0 145.0 145.0	85000 86000 86000	.073 - .089	88 87 87	88 87 84	86 85 84	89 87 78	86 72 67	79 1157 1200	1099 400 400	400 400 400	175 175 175
	239 105	90	125	380-415	380 400 415	194.0 190.0 191.0	107000 107000 107000	.055 - .067	87 87 87	87 86 83	85 84 80	86 83 74	83 78 63	75 1332 1382	1265 500 500	500 500 500	225 225 225
	239 106	110	150	380-415	380 400 415	226.0 222.0 223.0	127000 127000 127000	.042 - .051	88 88 88	88 87 84	86 85 81	87 84 75	87 80 64	77 1517 1657	600 600 600	600 600 600	300 300 300
	239 107	130	175	380-415	380 400 415	260.0 252.0 247.0	150000 148000 148000	.042 - .052	87 88 88	87 87 85	86 86 86	89 87 81	87 84 74	83 1733 1803	1651 700 700	700 700 700	300 300 300
	239 108	150	200	380-415	380 400 415	294.0 284.0 277.0	170000 170000 170000	.036 - .044	88 88 88	88 88 86	86 86 87	90 88 83	88 79 75	83 1765 1928	1765 800 800	800 800 800	350 350 350

Performance is typical, not guaranteed, at specified voltages.

Locked rotor amps for Wye start 6 lead motors is 33% of value shown.

Performance also applies to 6 lead model numbers where not listed.

Six lead individual phase resistance = table X 1.5.

* Refer to page 48 for 6" Hi Temp 90°C and 8" Hi Temp 75°C motors

** Amps may also be referred to as Full Load Amps (FLA)
Service Factor Amps (SFA) or Name Plate Amps