



Three-Phase Motors

APPLICATION

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	380	8.9	4850	3.9 - 4.8	77	76	73	84	78	66	39	25	10	
				400	400	8.8	4900		77	71	59	79	71	59				42
				415	415	9.3	4950		75	73	67	74	64	52				43
	236 611	5.5	7 1/2	380	380	12.7	7175	2.4 - 2.9	78	79	77	85	80	70	61	35	15	
					400	12.5	7100		79	78	74	82	75	63				64
					415	12.8	7175		78	77	74	78	70	57				66
	236 612	7.5	10	380	380	16.5	9450	1.9 - 2.4	79	80	77	87	83	74	83	45	20	
					400	16.0	9450		79	79	75	86	80	70				83
					415	16.2	9450		79	78	75	81	74	62				91
	236 613	11	15	380	380	24.2	13750	1.1 - 1.4	81	82	80	87	82	72	126	60	30	
400					23.0	13750	81		80	78	84	80	64	125				
415					24.1	13750	81		80	77	82	75	63	133				60
236 614	15	20	380	380	32.0	18200	.83 - 1.0	82	83	81	87	84	75	164	80	35		
				400	31.3	18500		81	81	79	85	80	69				170	
				415	31.0	18500		81	81	77	83	77	65				174	80
236 615	18.5	25	380	380	40.0	23000	.62 - .77	81	83	82	89	85	76	197	100	45		
				400	38.5	22700		82	83	81	85	79	68				206	
				415	38.5	22700		82	82	80	82	75	62				215	100
236 616	22	30	380	380	47.0	27250	.52 - .64	82	83	82	88	86	78	255	125	55		
				400	45.3	27000		83	83	81	86	81	71				268	
				415	45.5	27000		83	82	80	84	78	66				278	125
236 617	30	40	380	380	64.1	36000	.34 - .42	83	84	83	87	82	72	362	175	75		
				400	63.5	36000		83	84	82	83	76	64				382	
				415	64.6	36000		83	82	80	79	71	58				397	175
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	61.0	34700	.247 - .303	86	86	85	88	84	75	397	175	70		
				400	61.0	34700		86	86	83	84	78	68				418	
				415	62.0	34700		86	85	82	80	73	62				433	175
	239 601	37	50	380	380	75.0	43000	.185 - .226	87	87	85	89	85	78	507	200	90	
					400	74.0	43000		87	87	84	86	81	71				534
					415	74.0	43000		87	86	83	83	76	66				654
	239 602	45	60	380	380	89.0	51500	.142 - .174	87	87	86	89	85	77	612	250	100	
					400	89.0	51500		87	87	85	85	81	71				645
					415	89.0	51500		87	86	84	82	76	65				669
	239 603	55	75	380	380	111.0	64000	.106 - .130	88	88	86	89	86	79	819	300	125	
					400	108.0	64000		88	87	85	87	82	72				862
					415	108.0	64000		88	87	84	84	78	66				895
	239 604	75	100	380	380	148.0	85000	.073 - .089	88	88	86	89	86	79	1099	400	175	
					400	145.0	86000		87	87	85	87	82	72				1157
415					145.0	86000	87		87	84	84	78	67	1200				400
239 105	93	125	380	380	194.0	107000	.055 - .067	87	87	85	86	83	75	1265	500	225		
				400	190.0	107000		87	86	84	83	78	68				1332	
				415	191.0	107000		87	86	83	80	74	63				1382	500
239 106	110	150	380	380	226.0	127000	.042 - .051	88	88	86	87	84	77	1517	600	300		
				400	222.0	127000		88	87	85	84	80	70				1597	
				415	223.0	127000		88	87	84	81	75	64				1657	600
239 107	130	175	380	380	260.0	150000	.042 - .052	87	87	86	89	87	83	1651	700	300		
				400	252.0	148000		88	87	86	87	84	79				1733	
				415	247.0	148000		88	87	85	86	81	74				1803	700
239 108	150	200	380	380	294.0	170000	.036 - .044	88	88	86	90	88	83	1765	800	350		
				400	284.0	170000		88	88	86	88	86	79				1858	
				415	277.0	170000		88	88	86	87	83	75				1928	800

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