

Electrical data



1φ 4" 220 Volts, 60 Hz, 3480 rpm, Submersible motors (SF 1.15)

Size	kW	hp	Max. load current incl.SF I _n [A]	Motor efficiency [%]			Cos φ			Ist/In
				η50 %	η75 %	η100 %	50%	75%	100%	
4"	0.25	0.33	4.40	39.0	49.0	54.0	0.48	0.51	0.64	3.0
4"	0.37	0.5	5.90	43.0	52.5	56.0	0.46	0.54	0.62	3.6
4"	0.55	0.75	8.00	42.5	51.0	57.0	0.47	0.56	0.63	3.7
4"	0.75	1.0	9.60	47.0	55.5	60.0	0.50	0.60	0.70	3.8
4"	1.1	1.5	11.5	53.5	62.0	67.0	0.60	0.73	0.82	4.0
4"	1.1	1.5	13.1	-	-	88.0	-	-	0.63	4.4
4"	1.5	2.0	13.2	53	56	57	0.7	0.8	0.86	4.3
4"	2.0	3.0	17.0	61	63	62	0.85	0.92	0.94	4.7
4"	3.7	5.0	27.5	58	63	66	0.89	0.94	0.96	4.0

1φ 6" 220 Volts, 60 Hz, 3480 rpm, Submersible motors (SF 1.15)

Size	kW	hp	Max. load current incl.SF I _n [A]	Motor efficiency [%]	Cos φ	Locked Rotor Amps
6"	3.7	5.0	27.5	76	0.99	103
6"	5.5	7.5	41.3	74	0.90	173
6"	7.5	10.0	55.5	77	0.96	212
6"	11	15.0	82.5	80	0.98	316

3 ϕ 220 Volts, 60 Hz, 3480 rpm, Submersible motors (SF 1.0)

Size	kW	hp	Max. load current incl.SF I _n [A]	Motor efficiency [%]			Cos ϕ			Ist/In
				η 50 %	η 75 %	η 100 %	50%	75%	100%	
4"	0.37	0.5	3.30	57.5	65.0	68.0	0.52	0.63	0.72	5.0
4"	0.55	0.75	4.80	58.0	65.5	68.0	0.47	0.59	0.70	4.8
4"	0.75	1.0	5.65	61.0	67.5	71.0	0.50	0.63	0.73	5.0
4"	0.75	1.0	4.60	70.5	72.0	71.1	0.81	0.86	0.88	3.9
4"	1.1	1.5	7.60	65.0	71.0	73.5	0.5	0.67	0.72	5.5
4"	1.1	1.5	6.10	71.4	74.7	74.8	0.73	0.82	0.86	4.6
4"	1.5	2.0	9.10	67.0	73.0	75.5	0.54	0.67	0.75	5.5
4"	1.5	2.0	8.20	73.0	74.8	74.5	0.67	0.78	0.85	4.1
4"	2.2	3.0	11.4	73.9	76.6	77.2	0.58	0.71	0.80	4.7
4"	3.0	4.0	14.8	76.9	79.0	78.3	0.60	0.74	0.82	4.7
4"	4.0	5.5	19.0	77.6	79.7	79.2	0.68	0.79	0.85	5.4
4"	5.5	7.5	25.0	80.0	80.5	78.0	0.67	0.80	0.87	5.1
6"	5.5	7.5	16.0	75.5	80.0	80.5	0.56	0.68	0.76	4.5
6"	7.5	10.0	20.6	79.5	81.5	82.0	0.61	0.73	0.79	4.6
6"	9.2	12.5	26.0	76.5	80.0	80.5	0.62	0.73	0.80	4.7
6"	11.0	15.0	29.5	79.5	82.5	82.5	0.66	0.77	0.82	4.7
6"	13.0	17.5	35.0	80	83.5	83.0	0.63	0.74	0.81	4.8
6"	15.0	20.0	40.0	80.5	83.5	84.0	0.64	0.76	0.81	5.2
6"	18.5	25.0	49.5	81.5	84.0	84.5	0.62	0.74	0.80	5.3
6"	22.0	30.0	56.5	82.5	85.0	85.0	0.67	0.77	0.83	5.1

3 ϕ 380 Volts, 60 Hz, 3480 rpm, Submersible motors (SF 1.15)

Size	kW	hp	Max. load current incl.SF I _n [A]	Motor efficiency [%]			Cos ϕ			Ist/In
				η 50 %	η 75 %	η 100 %	50%	75%	100%	
6"	5.5	7.5	15.6	66	72	74	0.62	0.71	0.77	3.4
6"	7.5	10	20.8	68	74	76	0.59	0.70	0.76	3.5
6"	9.2	12	24.2	72	77	78	0.62	0.72	0.78	3.5
6"	11	15	30.0	71	76	78	0.57	0.69	0.76	3.8
6"	13	18	34.5	73	78	79	0.57	0.69	0.77	3.9
6"	15	20	38.5	74	79	81	0.58	0.70	0.78	4.3
6"	18.5	25	45.5	78	81	83	0.60	0.72	0.79	4.3
6"	22	30	53.5	81	84	84	0.59	0.71	0.79	5.7
6"	26	35	61.5	81	84	85	0.62	0.73	0.80	5.9
6"	30	40	67.0	82	84	84	0.65	0.76	0.81	5.0
6"	37	50	88.5	81	84	84	0.59	0.72	0.80	5.8
8"	22	30	69.0	75	79	80	0.80	0.85	0.86	4.4
8"	26	35	69.0	75	79	80	0.81	0.86	0.87	4.4
8"	30	40	77.0	77	81	82	0.78	0.84	0.87	5.1
8"	37	50	94.0	79	83	83	0.79	0.85	0.87	4.9
8"	45	60	110	81	85	85	0.80	0.86	0.88	5.5
8"	55	75	132	82	85	86	0.83	0.88	0.89	5.0
8"	63	85	152	83	85	85	0.81	0.87	0.89	5.3
8"	75	100	182	84	86	85	0.86	0.89	0.90	4.6
8"	92	125	220	85	87	86	0.85	0.89	0.90	4.8
8"	110	150	260	83	86	86	0.84	0.89	0.90	5.0

3 ϕ 460 Volts, 60 Hz, 3480 rpm, Submersible motors (SF 1.15)

Size	kW	hp	Max. load current incl.SF I _n [A]	Motor efficiency [%]			Cos ϕ			Ist/In
				η 50 %	η 75 %	η 100 %	50%	75%	100%	
4"	0.37	0.5	1.6	58.0	65.0	68.5	0.51	0.64	0.73	5.0
4"	0.55	0.75	2.3	58.5	65.5	68.5	0.47	0.59	0.69	4.8
4"	0.75	1.0	2.7	61.5	67.0	71.0	0.50	0.63	0.73	5.0
4"	0.75	1.0	2.2	68.0	71.2	71.3	0.76	0.83	0.87	4.5
4"	1.1	1.5	3.65	64.5	70.5	73.5	0.49	0.62	0.72	5.5
4"	1.1	1.5	3.0	72.0	74.5	75.0	0.69	0.79	0.85	5.0
4"	1.5	2.0	4.35	68.0	72.5	75.5	0.54	0.66	0.76	5.5
4"	1.5	2.0	4.05	71.0	74.5	75.2	0.60	0.73	0.82	4.4
4"	2.2	3.0	5.80	70.0	75.0	76.2	0.52	0.65	0.75	4.8
4"	3.0	4.0	7.50	73.4	77.3	78.0	0.54	0.68	0.68	4.9
4"	4.0	5.5	9.45	77.1	79.8	80.0	0.60	0.74	0.82	5.7
4"	5.5	7.5	12.6	79.5	80.7	81.0	0.60	0.74	0.82	5.3
4"	7.5	10	18.0	78.5	80.7	80.6	0.56	0.69	0.79	5.2
6"	5.5	7.5	13.2	76	79.5	80.5	0.56	0.68	0.76	4.5
6"	7.5	10	17	78	79	81.5	0.61	0.73	0.79	4.6
6"	9.2	12.5	21.4	77	80	80.5	0.62	0.73	0.80	4.7
6"	11	15	24.5	79.5	82.5	82.5	0.66	0.76	0.82	4.7
6"	13	17.5	29	80	83	82.5	0.64	0.74	0.81	4.8
6"	15	20	33	81	83.5	84.0	0.64	0.75	0.82	5.2
6"	18.5	25	41	81	84	84.5	0.62	0.73	0.80	5.3
6"	22	30	46.5	82.5	85	85.0	0.67	0.68	0.83	5.1
6"	26	35	55.5	82.5	84.5	85.0	0.67	0.77	0.83	5.0
6"	30	40	64	82.5	84.5	85.0	0.66	0.76	0.85	5.6

Ist/In : Locked rotor current/Rated amperage

η : Efficiency

Cos ϕ : Power factor