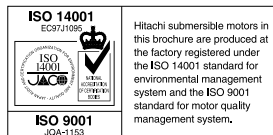


6" Hitachi® Submersible Motors



Hitachi Motors are designed for long service life and years of dependable operation. Innovative design and robust characteristics make this the perfect motor for your pumping applications.

Combined with exceptional insulation and a patented epoxy fill resin, these motors exceed NEMA requirements for high water temperature by 18°F (-7.7°C). Designed with internal lubrication and cooling blend of water, antifreeze, and an anti-rust mixture, Hitachi submersible motors are unique in providing the industry with innovative and robust design features that will extend the serviceable life of your installation.

APPLICATIONS

- High-thrust water well applications.

SPECIFICATIONS

Motor Sleeve – Stainless steel construction
Castings – Baked epoxy-coated gray iron
Fasteners – Stainless steel
Shaft – NEMA splined stainless steel
Flange – NEMA standard type
Rotor – Double epoxy-coated
Thrust Bearings – Kingsbury-type 420 stainless steel
Mechanical Seal – Nitrile rubber (NBR), grease packed
Diaphragm – Nitrile rubber
Sand Cap – Polyurethane
Sand Slinger – Stainless steel
Lead Wire (or Cable) – Double-insulated, heat and water-resistant, 167°F/75°C, 600V

FEATURES

Higher Efficiencies and Lower Current Consumption – For reduced energy costs.

Corrosion-Resistant Design – For long life.

High-Capacity Kingsbury-type Bearings – For dependable performance.

Low-Profile NEMA Design – For ease of installation.

Replaceable Plug-in Motor Lead – For ease of maintenance.

Dual Voltage Type – For application versatility (5 HP – 30 HP 3-Phase Motors).

VFD-Compatible

Hitachi Control Box

- **Type 1 NEMA Enclosure**
- **In-Panel Circuit Breaker**
- **Magnetic Contactor**
- **Terminal Blocks for External Controls**
- **UL Recognized**



6" Hitachi® Submersible Motors

ORDERING INFORMATION

										Length (L)		Diameter (D)		Weight	
Hp	Kw	Volts	Ph	Service Factor	Catalog Number	Rated Input Amps	Service Factor Input Amps	Winding Resistance (ohms)	Thrust Capacity	In.	mm	In.	mm	Lbs.	Kg
6" Diameter 60 Hz															
5	3.7	200	3	1.15	6HIT2-5-8	17.5	19.5		3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	230	1	1.15	6HIT2-5-1	24	27.5	R-Y, B-Y, R-B, 2.172, 0.512, 2.627	3,500	26.97"	685.0	5.5"	139.7	110	49.9
5	3.7	230	3	1.15	6HIT2-5-2	15	17	0.806	3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	460	3	1.15	6HIT2-5-4	7.5	8.5	3.05	3,500	22.95"	582.9	5.5"	139.7	95	43.0
7.5	5.5	200	3	1.15	6HIT2-7-8	25.4	28.5		3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	230	1	1.15	6HIT2-7-1	36	41	R-Y, B-Y, R-B, 1.401, 0.400, 1.774	3,500	29.92"	760.0	5.5"	139.7	128	58.1
7.5	5.5	230	3	1.15	6HIT2-7-2	22	26	0.651	3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	460	3	1.15	6HIT2-7-4	11	13	2.43	3,500	24.80"	629.9	5.5"	139.7	99	43.0
10	7.5	200	3	1.15	6HIT2-10-8	33.3	37.2		3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	230	1	1.15	6HIT2-10-1	50	58	R-Y, B-Y, R-B, 1.052, 0.316, 1.310	3,500	29.92"	760.0	5.5"	139.7	128	58.1
10	7.5	230	3	1.15	6HIT2-10-2	29	33	0.448	3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	460	3	1.15	6HIT2-10-4	14.5	16.5	1.619	3,500	26.97"	685.0	5.5"	139.7	110	49.9
15	11	200	3	1.15	6HIT2-15-8	47.4	53.5		3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	230	1	1.15	6HIT2-15-1	72	85	R-Y, B-Y, R-B, 0.678, 0.230, 0.850	3,500	33.46"	849.9	5.5"	139.7	148	67.1
15	11	230	3	1.15	6HIT2-15-2	42	46	0.312	3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	460	3	1.15	6HIT2-15-4	21	23	1.074	3,500	29.92"	760.0	5.5"	139.7	128	58.1
20	15	200	3	1.15	6HIT2-20-8	61.2	69.5		3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	230	3	1.15	6HIT2-20-2	54	60	0.258	3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	460	3	1.15	6HIT2-20-4	27	30	0.861	3,500	31.5"	800.1	5.5"	139.7	137	62.1
25	18.5	200	3	1.15	6HIT2-25-8	77.3	87.5		3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	230	3	1.15	6HIT2-25-2	68	76	0.21	3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	460	3	1.15	6HIT2-25-4	34	38	0.666	3,500	36.22"	920.0	5.5"	139.7	161	73.0
30	22	200	3	1.15	6HIT2-30-8	91.8	104		3,500	38.19"	970.0	5.5"	139.7	176	79.8
30	22	230	3	1.15	6HIT2-30-2	82	94	0.166	3,500	39.19"	970.0	5.5"	139.7	176	79.8
30	22	460	3	1.15	6HIT2-30-4	41	47	0.554	3,500	38.19"	970.0	5.5"	139.7	176	79.8
40	30	460	3	1.15	6HIT2-40-4	56	61	0.358	5,000	40.55"	1,030.0	5.5"	139.7	187	84.8
8" Diameter 60 Hz															
50	37	460	3	1.15	86HIT2-50-4*	65	73	0.331	5,000	45.28"	1,150.0	7.52"	191.0	353	160.1
60	45	460	3	1.15	86HIT2-60-4*	80	90	0.278	5,000	48.03"	1,220.0	7.52"	191.0	408	185.1

NOTE: 6" motors are 3450 rpm, 60 Hz, 1.15 SF.

OUTLINE DIMENSIONS



Shaft Extension 2.87"
(72.9 mm)

For lengths, refer to Ordering Information tables. Dimensions are for estimating purposes only.

ORDERING INFORMATION

HP	kW	Volts	PH	Catalog Number
Hitachi Control Box				
5	3.7	230	1	HIT-5CDB
7.5	5.5	230	1	HIT-7.5CDB
10	7.5	230	1	HIT-10CDB
15	11	230	1	HIT-15CDB



6" Hitachi® Submersible Motors

CABLE SELECTION

COPPER CABLE SIZE – From Control Box to Motor (in feet)

Motor				Conductor Size AWG, MCM																
HP	Volts/ Hz	Fuse																		
		STD	Dual Element	12	10	8	6	4	2	0	00	000	0000	250	300	350	400	500	600	
Three Phase																				
5	230/60	45	20	240	380	620	960	1500	2370											
	460/60	25	10	1000	1590	2600														
7.5	230/60	70	30	160	260	420	650	1010	1600	2560										
	460/60	35	15	690	1100	1800	2790													
10	230/60	80	40		190	300	470	730	1160	1850	2320									
	460/60	40	20	510	820	1330	2070													
15	230/60	125	60			200	300	470	750	1190	1490	1890								
	460/60	60	30	350	550	900	1400	2170												
20	230/60	175	70				210	330	530	840	1060	1340	1690	2060						
	460/60	90	35		410	670	1050	1600	2570											
25	230/60	200	90					250	390	630	790	1000	1260	1530	1840					
	460/60	100	45			530	830	1280	2040											
30	230/60	250	110						350	560	710	900	1130	1380	1650	1920				
	460/60	125	50			450	690	1080	1710	2730										
40	460/60	150	70				490	760	1210	1930	2430									
50		200	90					590	930	1490	1870	2370								
60		225	100						810	1290	1620	2060								
75		300	150						700	1110	1400	1770	2230							
100		400	175							860	1080	1370	1720	2100						
125		500	225								710	1060	1330	1620	1940					
150		600	250									860	1080	1320	1580	1840				
175		700	300										1000	1220	1460	1700	1950			
200		800	350											1050	1260	1470	1680	2100		
250		900	450															1310	1640	1970
300		1200	600																1440	1720
Single Phase																				
5	230/60	80	35		170	280	440	680	1080	1730										
7.5		125	45			170	270	410	650	1040	1310									
10		175	60				170	270	430	680	850	1080								
15		250	100					150	250	390	490	620	780	960						