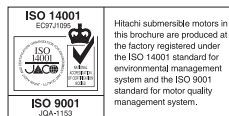


# HITACHI® 6" SUBMERSIBLE MOTORS



Hitachi motors are designed for a long service life with years of dependable operation. Designed with internal lubrication and a cooling blend of water, antifreeze, and an anti-rust mixture, and 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) while robust design features that 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



# PENTEK MOTORS HITACHI® 6" SUBMERSIBLE MOTORS

## ORDERING INFORMATION

### 6" DIAMETER 60HZ

Hp	Kw	Volts	Ph	Service Factor	Catalog Number	Rated Input Amps	Service Factor Input Amps	Winding Resistance (ohms)	Thrust Capacity	Length (L)		Diameter (D)		Weight	
										In.	mm	In.	mm	Lbs.	Kg
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. See pages 105-108 for Cable Selection Guides. \*8" motor with 6" pump connection

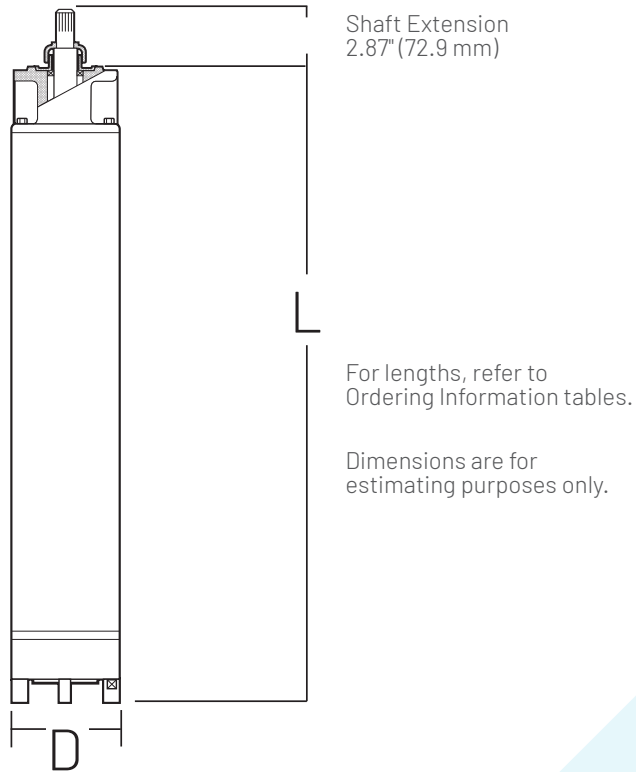
# PENTEK MOTORS HITACHI® 6" SUBMERSIBLE MOTORS

Single phase motors require a control box.

## ORDERING INFORMATION: HITACHI CONTROL BOX

HP	KW	VOLTS	PH	CATALOG NUMBER
5	3.7	230	1	HIT-5CBD
7.5	5.5	230	1	HIT-7.5CBD
10	7.5	230	1	HIT-10CBD
15	11	230	1	HIT-15CBD

## OUTLINE DIMENSIONS



293 Wright Street  
Delavan, WI 53115  
Ph: 866.973.6835  
Fx: 800.426.9446

490 Pinebush Rd., Unit 4  
Cambridge, Ontario  
Canada N1T 0A5  
Ph: 800.363.7867  
Fx: 888.606.5484

[pentair.com](http://pentair.com)

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