



6" submersible motors – Hitachi



6" Hitachi submersible motors are fully featured for many years of dependable operation. Performance meets or exceeds that of other manufacturers. Horsepower and temperature ratings are continuous for operation at 95 °F (35 °C) with a minimum 0.5 ft./sec. cooling flow past the motor.

SPECIFICATIONS

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

6" HITACHI SUBMERSIBLE MOTORS

FEATURES

- Higher Efficiencies**
- Epoxy Filled** – Provides excellent heat conductivity.
- Lower Current Consumption** – For reduced energy costs.
- Kingsbury-Type High-Capacity Thrust Bearings**
- NEMA-Fit Mounting Configuration, Low Profile**
- Robust Stator Design**
- Color-Coded Double-Insulated Flat Lead Design**
- Corrosion-Resistant Components**
- Water Temperature Rating of 95°F (35°C) Exceeds NEMA Standards**
- Replaceable Plug-in Motor Lead**
- Waterproof Canned Insulation** – Prevents well water from entering the motor.
- Heat Resistant Against Thermal Fluctuations and Internal Stress**
- Stainless Steel Sand Slinger Will Not Deteriorate**
- Extra Large Carbon Sleeve Bearings For Extra Stability Of Motor and Pump Shafts**
- Stronger Motor Shaft** – One piece stub and motor shaft with no welds.

Contact Pentair Water if current material types are required for bid specifications.



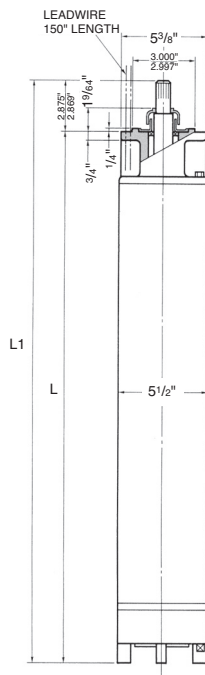
6" submersible motors – Hitachi

ORDERING INFORMATION

HP	kW	Volts	PH	Hz	Catalog Number	LENGTH (L)	Shaft Extension (L1)	Diameter (D)	Thrust Capacity Lbs.	WEIGHT Lbs.
						In.	In.	In.		
5	3.7	230	1	60	6HIT2-5-1	26.8	2.875	5.5	3,500	121
		230	3	60	6HIT2-5-2	22.9	2.875	5.5	3,500	95
		460	3	60	6HIT2-5-4	22.9	2.875	5.5	3,500	95
7.5	5.5	230	1	60	6HIT2-7-1	29.9	2.875	5.5	3,500	134
		230	3	60	6HIT2-7-2	24.8	2.875	5.5	3,500	99
		460	3	60	6HIT2-7-4	24.8	2.875	5.5	3,500	99
10	7.5	230	1	60	6HIT2-10-1	29.9	2.875	5.5	3,500	139
		230	3	60	6HIT2-10-2	27.0	2.875	5.5	3,500	110
		460	3	60	6HIT2-10-4	27.0	2.875	5.5	3,500	110
15	11	230	1	60	6HIT2-15-1	33.5	2.875	5.5	3,500	154
		230	3	60	6HIT2-15-2	30.0	2.875	5.5	3,500	121
		460	3	60	6HIT2-15-4	30.0	2.875	5.5	3,500	121
20	15	230	3	60	6HIT2-20-2	31.5	2.875	5.5	3,500	128
		460	3	60	6HIT2-20-4	31.5	2.875	5.5	3,500	128
25	18.5	230	3	60	6HIT2-25-2	36.2	2.875	5.5	3,500	150
		460	3	60	6HIT2-25-4	36.2	2.875	5.5	3,500	150
30	22	230	3	60	6HIT2-30-2	38.2	2.875	5.5	3,500	161
		460	3	60	6HIT2-30-4	38.2	2.875	5.5	3,500	161
40	30	460	3	60	6HIT2-40-4	40.6	2.875	5.5	5,000	176
50	37	460	3	60	86HIT2-50-4	41.7	2.875	5.5	5,000	238

NOTE: 6" motors ar60 rpm, 60 Hz, 1.15 SF.
For 200V consult factory.

OUTLINE DIMENSIONS



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



6" submersible motors – Hitachi

CABLE SELECTION

THREE PHASE MOTOR MAXIMUM CABLE LENGTH (Motor to Service Entrance)

Motor Rating		AWG Copper Wire Size																		
Volts	HP	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500	
200	3	180	290	470	740	1160	1810	2250	2860	3390	4130									
	5	110	170	280	440	690	1000	1350	1660	20440	2490	3050	3670	4440	5030					
	7-1/2	0	0	200	310	490	770	960	1180	1450	1770	2170	2600	3150	3560					
	10	0	0	150	230	370	570	720	80	1090	1330	1640	1970	2390	2720	3100	3480	3800	4420	
	15	0	0	0	160	250	390	490	600	740	910	1110	1340	1630	1850	2100	2350	2570	2980	
	20	0	0	0	0	190	300	380	460	570	700	860	1050	1270	1440	1650	1850	2020	2360	
	25	0	0	0	0	0	240	300	370	460	570	700	840	1030	1170	1330	1500	1640	1900	
30	0	0	0	0	0	200	250	310	380	470	580	700	850	970	1110	1250	1360	1590		
230	3	210	340	540	860	1340	2080	2580	3170	3880	4730									
	5	130	200	320	510	800	1240	1550	1900	2330	2850	3490	4200	5080	5750					
	7-1/2	0	140	230	360	570	890	1100	1350	1650	2030	2480	2980	3600	4070					
	10	0	0	170	270	420	660	820	1010	1240	1520	1870	2260	2740	3110	3540	3980	4340	5050	
	15	0	0	0	180	290	450	560	690	850	1040	1280	1540	1860	2110	2400	2690	2940	3410	
	20	0	0	0	140	220	350	430	530	660	810	990	1200	1450	1650	1890	2120	2320	2700	
	25	0	0	0	0	180	280	350	430	530	650	800	970	1170	1340	1520	1710	1870	2180	
30	0	0	0	0	0	230	290	350	440	540	660	800	970	1110	1270	130	1560	1820		
460	3	1000	1600	2520	3970	6200														
	5	590	950	1500	2360	3700	5750													
	7-1/2	420	680	1070	1690	2640	4100	5100	6260	7680										
	10	310	500	790	1250	1960	3050	3800	4680	5750	7050									
	15	0	340	540	850	1340	2090	2600	3200	3930	4810	5900	7110							
	20	0	0	410	650	1030	1610	2000	2470	3040	3730	4580	5530							
	25	0	0	330	530	830	1300	1620	1990	2450	3010	3700	4470	5430						
	30	0	0	270	430	680	1070	1330	1640	2030	2490	3060	3700	4500	5130	5860				
	40	0	0	0	320	500	790	980	1210	1490	1830	2250	2710	3290	3730	4250				
	50	0	0	0	0	410	640	800	980	1210	1480	1810	2190	2650	3010	3420	3830	4180	4850	
	60	0	0	0	0	0	540	670	830	1020	1250	1540	1850	2240	2540	2890	3240	3540	4100	
	75	0	0	0	0	0	440	550	680	840	1030	1260	1520	1850	2100	2400	2700	2950	3440	
	100	0	0	0	0	0	0	0	500	620	760	940	1130	1380	1560	1790	2010	2190	2550	
	125	0	0	0	0	0	0	0	0	0	600	740	890	1000	1220	1390	1560	1700	1960	
150	0	0	0	0	0	0	0	0	0	0	630	760	920	1050	1190	1340	1460	1690		
575	3	1580	2530	3980	6270															
	5	920	1480	2330	3680	5750														
	7-1/2	660	1060	1680	2650	4150														
	10	490	780	1240	1950	3060	4770	5940												
	15	330	530	850	1340	2090	3260	4060												
	20	0	410	650	1030	1610	2520	3140	3860	4750	5830									
	25	0	0	520	830	1300	2030	2530	3110	3840	4710									
	30	0	0	430	680	1070	1670	2080	2560	3160	3880	4770	5780	7030	8000					
	40	0	0	0	500	790	1240	1540	1900	2330	2860	3510	4230	5140	5830					
	50	0	0	0	410	640	1000	1250	1540	1890	2310	2840	3420	4140	4700	5340	5990	6530	7580	
	60	0	0	0	0	540	850	1060	1300	1600	1960	2400	2890	3500	3970	4520	5070	5530	6410	
	70	0	0	0	0	0	690	860	1060	1310	1600	1970	2380	3890	3290	3750	4220	4610	5370	
	100	0	0	0	0	0	0	640	790	970	1190	1460	1770	2150	2440	2790	3140	3430	3990	
	125	0	0	0	0	0	0	0	630	770	950	1160	1400	1690	1920	2180	2440	2650	3070	
150	0	0	0	0	0	0	0	0	660	800	990	1190	1440	1630	1860	2080	2270	2640		