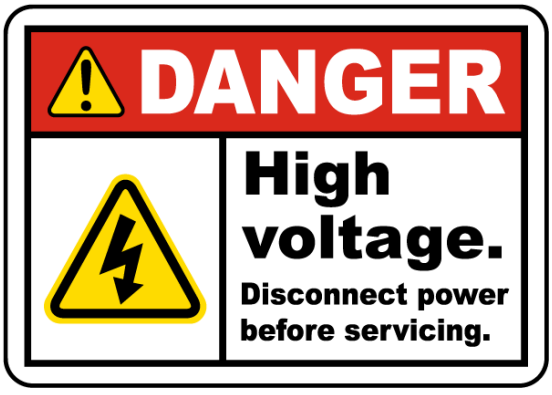
4" FRANKLIN ELECTRIC 3 PHASE MOTOR SPECIFICATIONS & TESTING PARAMETERS

HORSEPOWER MOTOR DIA. MAKE & RPM	VOLTS	PHASE	Hz	SERVICE FACTOR	FULL LOAD AMPS	MAX LOAD AMPS	LINE to LINE RESISTANCE IN OHMS	LOCKED ROTOR AMPS
1 HP 4" FRANKLIN 3450 RPM	208V	3 PH	60 Hz	1.4	4.5	5.4	3.8 - 4.5	30.9
	230V				3.9	4.7	4.9 - 5.6	26.9
	460V				2.0	2.4	19.9 - 23.0	13.5
	575V				1.6	1.9	30.1 - 36.7	10.8
1.5 HP 4" FRANKLIN 3450 RPM	208V	3 PH	60 Hz	1.3	5.8	6.8	2.5 - 3.0	38.2
	230V				5.0	5.9	3.2 - 4.0	33.2
	460V				2.5	3.1	13.0 - 16.0	16.6
	575V				2.0	2.4	20.3 - 25.0	13.3
2 HP 4" FRANKLIN 3450 RPM	208V	3 PH	60 Hz	1.25	7.7	9.3	1.8 - 2.4	50.3
	230V				6.7	8.1	2.3 - 3.0	45.0
	460V				3.4	4.1	9.2 - 12.0	22.5
	575V				2.7	3.2	14.6 - 18.7	17.8
3 HP 4" FRANKLIN 3450 RPM	208V	3 PH	60 Hz	1.15	10.9	12.5	1.3 - 1.7	69.5
	230V				9.5	10.9	1.8 - 2.2	60.3
	460V				4.8	5.5	7.2 - 8.8	31.0
	575V				3.8	4.4	11.4 - 13.9	25.1



CAUTION

ALL ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN

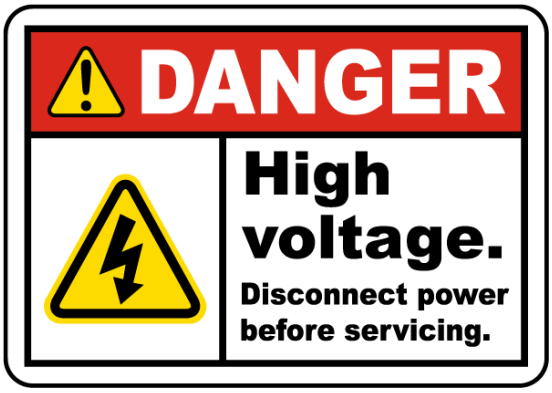
IMPORTANT

- ☑ **DO NOT** test Winding resistance with the motor connected to the Control Box or Variable Frequency Drive (VFD).
- ☑ Test the windings by using a Multimeter or Ohmmeter to measure Ohms (Resistance) between Yellow or White to Red, Yellow or White to Black, and Red to Black.
- ☑ Resistance measured between any combination of wires should be a similar value.
- ☑ A bound pump will cause locked rotor amps and over-current fault/shut down. Check for obstructions in the pump and/or the amps on the Black wire at start-up.

Carry Pumps, Inc. · 1360 Prospect Ave. · Caro, MI 48723
www.carrypumps.com · 800-492-2779 · controls@carrypumps.com

6” FRANKLIN ELECTRIC 3 PHASE SUBMERSIBLE MOTOR SPECIFICATIONS & TESTING PARAMETERS

HORSEPOWER MOTOR DIA. MAKE & RPM	VOLTS	PHASE	Hz	SERVICE FACTOR	FULL LOAD AMPS	MAX LOAD AMPS	LINE to LINE RESISTANCE IN OHMS	LOCKED ROTOR AMPS
5 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	17.5	20.0	0.77 - 0.93	99.0
	230V				15.0	17.6	1.0 - 1.2	86.0
	460V				7.5	8.8	3.9 - 4.8	52.0
	575V				6.0	7.1	6.3 - 7.7	43.0
7.5 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	25.1	28.3	0.43 - 0.53	150.0
	230V				21.8	24.6	0.64 - 0.78	130.0
	460V				10.9	12.3	2.4 - 2.9	65.0
	575V				8.7	9.8	3.7 - 4.6	52.0
10 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	32.7	37.0	0.37 - 0.45	198.0
	230V				28.4	32.2	0.47 - 0.57	172.0
	460V				14.2	16.1	1.9 - 2.4	86.0
	575V				11.4	12.9	3.0 - 3.7	69.0
15 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	47.8	54.4	0.24 - 0.29	306.0
	230V				41.6	47.4	0.28 - 0.35	266.0
	460V				20.8	23.7	1.1 - 1.4	133.0
	575V				16.6	19.0	1.8 - 2.3	106.0



CAUTION

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IMPORTANT

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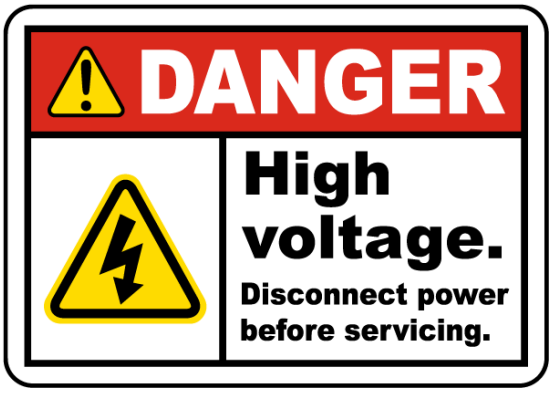
6” FRANKLIN ELECTRIC 3 PHASE SUBMERSIBLE MOTOR SPECIFICATIONS & TESTING PARAMETERS

HORSEPOWER MOTOR DIA. MAKE & RPM	VOLTS	PHASE	Hz	SERVICE FACTOR	FULL LOAD AMPS	MAX LOAD AMPS	LINE to LINE RESISTANCE IN OHMS	LOCKED ROTOR AMPS
20 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	61.9	69.7	0.16 - 0.20	416.0
	230V				53.8	60.6	0.22 - 0.26	362.0
	460V				26.9	30.3	0.8 - 1.0	181.0
	575V				21.5	24.2	0.13 - 0.16	145.0
25 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	77.1	86.3	0.12 - 0.15	552.0
	230V				67.0	76.4	0.15 - 0.19	480.0
	460V				33.5	38.2	0.63 - 0.77	240.0
	575V				26.8	30.0	1.0 - 1.3	192.0
30 HP 6” FRANKLIN 3450 RPM	200V	3 PH	60 Hz	1.15	90.9	104.0	0.09 - 0.11	653.0
	230V				79.0	90.4	0.14 - 0.17	568.0
	460V				39.5	45.2	0.52 - 0.64	284.0
	575V				31.6	36.2	0.78 - 0.95	227.0
40 HP 6” FRANKLIN 3450 RPM	460V	3 PH	60 Hz	1.15	54.9	61.6	0.34 - 0.42	397.0
	575V				42.8	49.6	0.52 - 0.64	318.0



IMPORTANT

- ☑ **DO NOT** test Winding resistance with the motor connected to the Control Box or Variable Frequency Drive (VFD).
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- ☑ Resistance measured between any combination of wires should be a similar value.
- ☑ A bound pump will cause locked rotor amps and over-current fault/shut down. Check for obstructions in the pump and/or the amps on the Black wire at start-up.

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CARRY PUMPS

CAUTION

Motor must be phased to ensure proper rotation

PHASING THE MOTOR

- 3 Phase motors are capable of running in both forward and reverse, so the pump can pump water both directions.
- If wired incorrectly, the pump will run in the reverse direction, pumping little water.

Continuously running the pump in reverse will cause premature motor failure that is not covered by warranty.

- When wired correctly, there will be a measurable increase in the amount of water pumped.
- Swapping any two red, yellow, or black wire connections will reverse the direction the motor is running.
- When in doubt, reverse any two red, yellow, or black wire connections and compare the water flow to determine the correct wiring configuration.

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