

OVERLOAD PROTECTION REQUIRED FOR 4", 6" & 8" SUBMERSIBLE MOTORS – 60 CYCLE – 3 PHASE

	MOTOR			
	HP	VOLTS	F&W PART NO.	SERVICE FACTOR AMPS
4" F&W SUBMERSIBLE MOTORS – 60 HZ – 3 PHASE	1/2	230	137585	2.9
		460	137591	1.5
	3/4	230	137586	3.8
		460	137592	1.9
	1	230	137587	4.7
		460	137593	2.4
	1 1/2	230	137588	5.9
		460	137594	3.1
	2	230	137589	8.1
		460	137595	4.1
	3	230	137590	10.9
		460	137596	5.5
4" FRANKLIN SUBMERSIBLE MOTORS – 60 HZ – 3 PHASE	1 1/2	200	M137457	6.8
		230	M137458	5.9
		460	M137460	3.1
	2	200	M137461	9.3
		230	M137462	8.1
		460	M137464	4.1
	3	200	M137465	12.5
		230	M137466	10.9
		460	M137468	5.5
	5	200	M137469	20.5
		230	M137470	17.8
		460	M137472	8.9
	7 1/2	200	M137473	30.5
		230	M137474	26.4
		460	M137476	13.2
6" & 8" FRANKLIN SUBMERSIBLE MOTORS – 60 HZ – 3 PHASE	5	200	133492	20.0
		230	133493	15.0
		460	133494	8.8
	7 1/2	200	130646	28.3
		230	126552	24.6
		460	128876	12.3
	10	200	130647	37.0
		230	126554	32.2
		460	128875	16.1
	15	200	130648	54.4
		230	126555	47.4
		460	128884	23.7
	20	200	130649	69.7
		230	128754	60.6
		460	128888	30.3
	25	200	130650	86.3
		230	128755	75.0
		460	128890	37.5
	30	230	128964	90.4
		460	128965	45.2
	40	460	021003	61.6
50	460	021004	77.0	

CAUTION: WARRANTY ON THREE PHASE SUBMERSIBLE MOTORS IS VOID UNLESS PROPER QUICK TRIP PROTECTORS ARE USED ON ALL 3 LEAD WIRES.

The characteristics of submersible motors are different from standard motors and special overload protection is required. If the motor is stalled, the overload protector must trip within approximately 10 seconds to protect the motor windings. In the three phase submersible motors, the installer must provide the SPECIAL EXTRA QUICK TRIP PROTECTORS. Per heater manufacturer's recommendations, heaters are for ambient compensated starter boxes; if they are not used, nuisance tripping (over protection) may be experienced at high temperatures and no protection will exist at low temperatures.

Overload protectors (heaters) for motors of "200-230 volt" ratings should be selected for each installation based on the line voltage measured at the control panel.



OVERLOAD PROTECTION REQUIRED FOR CENTRIFUGAL AND JET PUMP MOTORS

MOTOR			
MFGR.	HP	VOLTS	SERVICE FACTOR AMPS
SINGLE PHASE, 60 HZ MOTORS			
BALDOR	3	230	16.8
	5	230	21.5
THREE PHASE, 60 HZ MOTORS			
F&W	1/2, 3/4	208/230	3.5
		460	1.75
	1	208/230	4.5
		460	2.25
	1-1/2	208/230	5.7
		460	2.9
	2	208/230	7.4
		460	3.7
	3	208/230	9.8
		460	4.9
BALDOR	3	208/230	9.0
		460	4.5
	5	208/230	14.0
		460	7.0
	7-1/2	208/230	21.0
		460	10.5

CAUTION: WARRANTY ON THREE PHASE MOTORS IS VOID UNLESS PROPER QUICK TRIP PROTECTORS ARE USED ON ALL 3 LEAD WIRES.

