

Torpedo™ Sideslope Pump Systems



QED Torpedo™ electric submersible pumps are made of stainless steel and fitted with teflon seals and bearings to handle the rigors of contaminated groundwater pumping and continuous operation in landfill/remediation applications. Built to deliver optimum efficiency periods of high demand, all electric pumps provide low, long-term

operating costs and high operating reliability.

QED's Torpedo environmental submersibles meet government guidelines for environmental equipment and have been proven through extensive use in the field.

FEATURES

- **Made For 10" and Larger Wells**
Flow rates of 5 to 14 GPM (18.9 to 53 LPM).
- **State-of-the-art Hydraulics**
Pump efficiency is maximized by constant improvement of the high performance hydraulic design, and precise manufacturing process.
- **Manufactured With High-grade Stainless Steel**
Rugged stainless steel construction inside and out resists corrosion and attack from aggressive liquids.
- **Wear-resistant Design**
Designed to flush abrasive particles from the pump, and made from stainless steel to resist wear caused by abrasives.
- **Built-in Check Valve**
*Check valve can be drilled to assist with freezing
Prevents back-flow into the well once the pump is shut down.
- **1/2 to 5 HP Motors**
Stainless steel construction and quality design.
- **Motor Controls and Protection**
Available controls to protect the motor against burnout and dry-running, plus the ability to monitor the system allowing the user to optimize settings.



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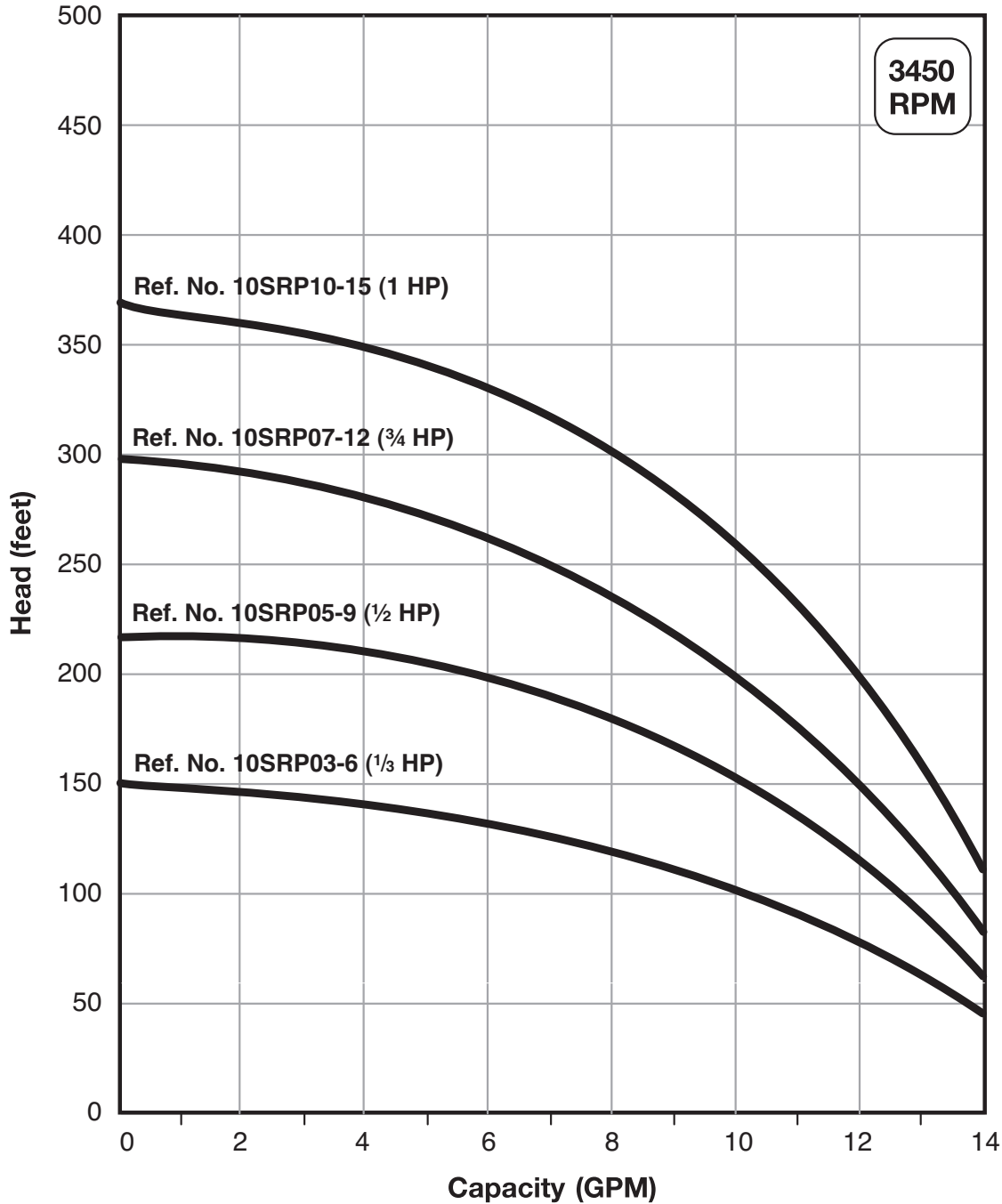
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Torpedo™ Sideslope Pump Systems

FLOW RANGE: 5 - 14 GPM

OUTLET SIZE: 1¼" NPT

NOMINAL DIA. 6.5"



Specifications subject to change without notice.
 4" motor standard, 3450 RPM.
 DS = Deep Set model version for high head requirements.
 Performance conforms to ISO 2548 Annex B @ 2 ft. minimum submergence.



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DIMENSIONS & WEIGHTS

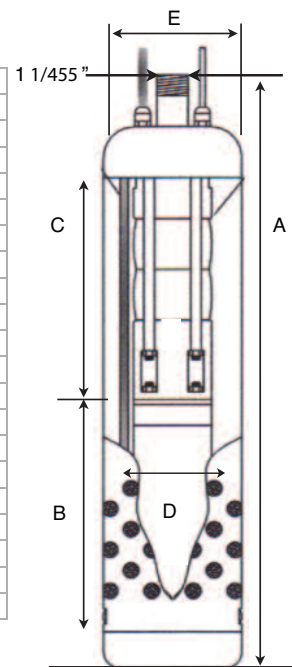
Model No.	Fig.	HP	Motor Size In.	Discharge Size	Dimensions					Approximate Shipping Wt. Lbs.
					A In.	B In.	C In.	D In.	E In.	
10SRP03-6	A	½	4	1 ¼" NPT	19.9	8.8	11.1	3.8	6.5	26
10SRP05-9	A	½	4	1 ¼" NPT	23	9.5	13.5	3.8	6.5	29
10SRP07-12	A	¾	4	1 ¼" NPT	26.7	10.7	16	3.8	6.5	32
10SRP10-15	A	1	4	1 ¼" NPT	30.3	11.8	18.5	3.8	6.5	34
10SRP15-21	A	1 ½	4	1 ¼" NPT	37.1	13.6	23.5	3.8	6.5	44
10SRP20-27	A	2	4	1 ¼" NPT	43.5	15.1	28.4	3.8	6.5	49
10SRP30-34	A	3	4	1 ¼" NPT	54.7	20.6	34.1	3.8	6.5	83
10SRP50-48DS	A	5	4	1 ¼" NPT	69.4	23.6	45.8	3.8	6.5	115
10SRP50-58DS*	B	5	4	1 ¼" NPT	88.2	23.6	64.5	3.8	6.5	142

Weights include pump end with motor in lbs.

MATERIALS OF CONSTRUCTION

COMPONENT	SPLINED SHAFT (6-27 Stgs.)	CYLINDRICAL SHAFT (34-48 Stgs.)	DEEP SET (58 Stgs.)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Pump Shaft	304 Stainless Steel	431 Stainless Steel	431 Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	316 Stainless Steel	316 Stainless Steel
Coupling	329/420/431 Stainless Steel	329/420/431 Stainless Steel	329/420/431 Stainless Steel
Check Valve Seat	Teflon/304 Stainless Steel	Teflon/316 Stainless Steel	Teflon/316 Stainless Steel
Top Bearing	Teflon/304 Stainless Steel	Teflon/316 Stainless Steel	Teflon/316 Stainless Steel
Impeller Seal Ring	Teflon	Teflon	Teflon
Intermediate Bearings	Teflon	304 Stainless Steel	Teflon /316 Stainless Steel
Shaft Washer	Teflon	Teflon	Teflon
Split Cone	Not Required	304 Stainless Steel	304 Stainless Steel
Split Cone Nut	Not Required	316 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	Not Required	316 Stainless Steel
Sleeve Flange	Not Required	Not Required	Zincless Bronze*

NOTES: Specifications subject to change without notice.
*Stainless Steel option available.



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Three Phase Motors

Table 16 Three-Phase 60 °C Cable, 60 Hz (Service Entrance to Motor) Maximum Length in Feet **60 °C**

MOTOR RATING			60 °C INSULATION - AWG COPPER WIRE SIZE													MCM COPPER WIRE SIZE					
VOLTS	HP	KW	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500	
200 V 60 Hz Three-Phase 3 - Lead	1/2	0.37	710	1140	1800	2840	4420														
	3/4	0.55	510	810	1280	2030	3160														
	1	0.75	430	690	1080	1710	2670	4140	5140												
	1.5	1.1	310	500	790	1260	1960	3050	3780												
	2	1.5	240	390	610	970	1520	2360	2940	3610	4430	5420									
	3	2.2	180	290	470	740	1160	1810	2250	2760	3390	4130									
	5	3.7	110	170	280	440	690	1080	1350	1660	2040	2490	3050	3670	4440	5030					
	7.5	5.5	0	0	200	310	490	770	960	1180	1450	1770	2170	2600	3150	3560					
	10	7.5	0	0	0	230	370	570	720	880	1090	1330	1640	1970	2390	2720	3100	3480	3800	4420	
	15	11	0	0	0	160	250	390	490	600	740	910	1110	1340	1630	1850	2100	2350	2570	2980	
	20	15	0	0	0	0	190	300	380	460	570	700	860	1050	1270	1440	1650	1850	2020	2360	
25	18.5	0	0	0	0	0	240	300	370	460	570	700	840	1030	1170	1330	1500	1640	1900		
30	22	0	0	0	0	0	0	250	310	380	470	580	700	850	970	1110	1250	1360	1590		
230 V 60 Hz Three-Phase 3 - Lead	1/2	0.37	930	1490	2350	3700	5760	8910													
	3/4	0.55	670	1080	1700	2580	4190	6490	8060	9860											
	1	0.75	560	910	1430	2260	3520	5460	6780	8290											
	1.5	1.1	420	670	1060	1670	2610	4050	5030	6160	7530	9170									
	2	1.5	320	510	810	1280	2010	3130	3890	4770	5860	7170	8780								
	3	2.2	240	390	620	990	1540	2400	2980	3660	4480	5470	6690	8020	9680						
	5	3.7	140	230	370	590	920	1430	1790	2190	2690	3290	4030	4850	5870	6650	7560	8460	9220		
	7.5	5.5	0	160	260	420	650	1020	1270	1560	1920	2340	2870	3440	4160	4710	5340	5970	6500	7510	
	10	7.5	0	0	190	310	490	760	950	1170	1440	1760	2160	2610	3160	3590	4100	4600	5020	5840	
	15	11	0	0	0	210	330	520	650	800	980	1200	1470	1780	2150	2440	2780	3110	3400	3940	
	20	15	0	0	0	0	250	400	500	610	760	930	1140	1380	1680	1910	2180	2450	2680	3120	
25	18.5	0	0	0	0	0	320	400	500	610	750	920	1120	1360	1540	1760	1980	2160	2520		
30	22	0	0	0	0	0	260	330	410	510	620	760	930	1130	1280	1470	1650	1800	2110		
380 V 60 Hz Three-Phase 3 - Lead	1/2	0.37	2690	4290	6730																
	3/4	0.55	2000	3190	5010	7860															
	1	0.75	1620	2580	4060	6390	9980														
	1.5	1.1	1230	1970	3100	4890	7630														
	2	1.5	870	1390	2180	3450	5400	8380													
	3	2.2	680	1090	1710	2690	4200	6500	8020	9830											
	5	3.7	400	640	1010	1590	2490	3870	4780	5870	7230	8830									
	7.5	5.5	270	440	690	1090	1710	2640	3260	4000	4930	6010	7290	8780							
	10	7.5	200	320	510	800	1250	1930	2380	2910	3570	4330	5230	6260	7390	8280	9340				
	15	11	0	0	370	590	920	1430	1770	2170	2690	3290	4000	4840	5770	6520	7430	8250	8990		
	20	15	0	0	0	440	700	1090	1350	1670	2060	2530	3090	3760	4500	5110	5840	6510	7120	8190	
	25	18.5	0	0	0	360	570	880	1100	1350	1670	2050	2510	3040	3640	4130	4720	5250	5740	6590	
	30	22	0	0	0	0	470	730	910	1120	1380	1700	2080	2520	3020	3430	3920	4360	4770	5490	
	40	30	0	0	0	0	0	530	660	820	1010	1240	1520	1840	2200	2500	2850	3170	3470	3990	
	50	37	0	0	0	0	0	0	540	660	820	1000	1220	1480	1770	2010	2290	2550	2780	3190	
	60	45	0	0	0	0	0	0	0	560	690	850	1030	1250	1500	1700	1940	2150	2350	2700	
	75	55	0	0	0	0	0	0	0	0	570	700	860	1050	1270	1440	1660	1850	2030	2350	
	100	75	0	0	0	0	0	0	0	0	0	510	630	760	910	1030	1180	1310	1430	1650	
125	90	0	0	0	0	0	0	0	0	0	0	0	620	740	840	950	1060	1160	1330		
150	110	0	0	0	0	0	0	0	0	0	0	0	0	620	700	790	880	960	1090		
175	130	0	0	0	0	0	0	0	0	0	0	0	0	0	650	750	840	920	1070		
200	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	630	700	760	880		

Lengths in **BOLD** only meet the US National Electrical Code ampacity requirements for individual conductors in free air or water. Lengths NOT in bold meet NEC ampacity requirements for either individual conductors or jacketed cable.



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Three Phase Motors

Table 17 Three-Phase 60 °C Cable (Continued)

60 °C

MOTOR RATING			60 °C INSULATION - AWG COPPER WIRE SIZE													MCM COPPER WIRE SIZE					
VOLTS	HP	KW	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500	
460 V 60 Hz Three-Phase 3 - Lead	1/2	0.37	3770	6020	9460																
	3/4	0.55	2730	4350	6850																
	1	0.75	2300	3670	5770	9070															
	1.5	1.1	1700	2710	4270	6730															
	2	1.5	1300	2070	3270	5150	8050														
	3	2.2	1000	1600	2520	3970	6200														
	5	3.7	590	950	1500	2360	3700	5750													
	7.5	5.5	420	680	1070	1690	2640	4100	5100	6260	7680										
	10	7.5	310	500	790	1250	1960	3050	3800	4680	5750	7050									
	15	11	0	340	540	850	1340	2090	2600	3200	3930	4810	5900	7110							
	20	15	0	0	410	650	1030	1610	2000	2470	3040	3730	4580	5530							
	25	18.5	0	0	0	530	830	1300	1620	1990	2450	3010	3700	4470	5430						
	30	22	0	0	0	430	680	1070	1330	1640	2030	2490	3060	3700	4500	5130	5860				
	40	30	0	0	0	0	500	790	980	1210	1490	1830	2250	2710	3290	3730	4250				
	50	37	0	0	0	0	0	640	800	980	1210	1480	1810	2190	2650	3010	3420	3830	4180	4850	
	60	45	0	0	0	0	0	540	670	830	1020	1250	1540	1850	2240	2540	2890	3240	3540	4100	
	75	55	0	0	0	0	0	0	0	680	840	1030	1260	1520	1850	2100	2400	2700	2950	3440	
	100	75	0	0	0	0	0	0	0	0	620	760	940	1130	1380	1560	1790	2010	2190	2550	
	125	90	0	0	0	0	0	0	0	0	0	0	740	890	1000	1220	1390	1560	1700	1960	
	150	110	0	0	0	0	0	0	0	0	0	0	0	760	920	1050	1190	1340	1460	1690	
175	130	0	0	0	0	0	0	0	0	0	0	0	0	810	930	1060	1190	1300	1510		
200	150	0	0	0	0	0	0	0	0	0	0	0	0	0	810	920	1030	1130	1310		
575 V 60 Hz Three-Phase 3 - Lead	1/2	0.37	5900	9410																	
	3/4	0.55	4270	6810																	
	1	0.75	3630	5800	9120																
	1.5	1.1	2620	4180	6580																
	2	1.5	2030	3250	5110	8060															
	3	2.2	1580	2530	3980	6270															
	5	3.7	920	1480	2330	3680	5750														
	7.5	5.5	660	1060	1680	2650	4150														
	10	7.5	490	780	1240	1950	3060	4770	5940												
	15	11	330	530	850	1340	2090	3260	4060												
	20	15	0	410	650	1030	1610	2520	3140	3860	4760	5830									
	25	18.5	0	0	520	830	1300	2030	2530	3110	3840	4710									
	30	22	0	0	430	680	1070	1670	2080	2560	3160	3880	4770	5780	7030	8000					
	40	30	0	0	0	500	790	1240	1540	1900	2330	2860	3510	4230	5140	5830					
	50	37	0	0	0	0	640	1000	1250	1540	1890	2310	2840	3420	4140	4700	5340	5990	6530	7580	
	60	45	0	0	0	0	0	850	1060	1300	1600	1960	2400	2890	3500	3970	4520	5070	5530	6410	
	75	55	0	0	0	0	0	690	860	1060	1310	1600	1970	2380	2890	3290	3750	5220	4610	5370	
	100	75	0	0	0	0	0	0	0	790	970	1190	1460	1770	2150	2440	2790	3140	3430	3990	
	125	90	0	0	0	0	0	0	0	0	770	950	1160	1400	1690	1920	2180	2440	2650	3070	
	150	110	0	0	0	0	0	0	0	0	0	800	990	1190	1440	1630	1860	2080	2270	2640	
175	130	0	0	0	0	0	0	0	0	0	0	870	1050	1270	1450	1650	1860	2030	2360		
200	150	0	0	0	0	0	0	0	0	0	0	0	920	1110	1260	1440	1620	1760	2050		

Lengths in **BOLD** only meet the US National Electrical Code ampacity requirements for individual conductors in free air or water. Lengths NOT in bold meet NEC ampacity requirements for either individual conductors or jacketed cable.



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Three Phase Motors

Table 22 Three-Phase Motor Specifications (60 Hz)

TYPE	RATING					FULL LOAD		MAXIMUM (S.F. LOAD)		LINE TO LINE RESISTANCE OHMS	EFFICIENCY %		LOCKED ROTOR AMPS	KVA CODE
	HP	KW	VOLTS	HZ	S.F.	AMPS	WATTS	AMPS	WATTS		S.F.	F.L.		
6.5"	1/2	0.37	200	60	1.6	2.8	585	3.4	860	6.6-8.4	70	64	17.5	N
	1/2	0.37	230	60	1.6	2.4	585	2.9	860	9.5-10.9	70	64	15.2	N
	1/2	0.37	380	60	1.6	1.4	585	2.1	860	23.2-28.6	70	64	9.2	N
	1/2	0.37	460	60	1.6	1.2	585	1.5	860	38.4-44.1	70	64	7.6	N
	3/4	0.55	200	60	1.5	3.6	810	4.4	1150	4.6-5.9	73	69	23.1	M
	3/4	0.55	230	60	1.5	3.1	810	3.8	1150	6.8-7.8	73	69	20.1	M
	3/4	0.55	380	60	1.5	1.9	810	2.5	1150	16.6-20.3	73	69	12.2	M
	3/4	0.55	460	60	1.5	1.6	810	1.9	1150	27.2-30.9	73	69	10.7	M
	1	0.75	200	60	1.4	4.5	1070	5.4	1440	3.8-4.5	72	70	30.9	M
	1	0.75	230	60	1.4	3.9	1070	4.7	1440	4.9-5.6	72	70	26.9	M
	1	0.75	380	60	1.4	2.3	1070	2.8	1440	12.2-14.9	72	70	16.3	M
	1	0.75	460	60	1.4	2	1070	2.4	1440	19.9-23.0	72	70	13.5	M
	1.5	1.1	200	60	1.3	5.8	1460	6.8	1890	2.5-3.0	76	76	38.2	K
	1.5	1.1	230	60	1.3	5	1460	5.9	1890	3.2-4.0	76	76	33.2	K
	1.5	1.1	380	60	1.3	3	1460	3.6	1890	8.5-10.4	76	76	20.1	K
	1.5	1.1	460	60	1.3	2.5	1460	3.1	1890	13.0-16.0	76	76	16.6	K
	1.5	1.1	575	60	1.3	2	1460	2.4	1890	20.3-25.0	76	76	13.3	K
	2	1.5	200	60	1.25	7.7	2150	9.3	2700	1.8-2.4	69	69	53.6	L
	2	1.5	230	60	1.25	6.7	2150	8.1	2700	2.3-3.0	69	69	46.6	L
	2	1.5	380	60	1.25	4.1	2150	4.9	2700	6.6-8.2	69	69	28.2	L
	2	1.5	460	60	1.25	3.4	2150	4.1	2700	9.2-12.0	69	69	23.3	L
	2	1.5	575	60	1.25	2.7	2150	3.2	2700	14.6-18.7	69	69	18.6	L
	3	2.2	200	60	1.15	10.9	2980	12.5	3420	1.3-1.7	75	75	71.2	K
	3	2.2	230	60	1.15	9.5	2980	10.9	3420	1.8-2.2	75	75	61.9	K
	3	2.2	380	60	1.15	5.8	2980	6.6	3420	4.7-6.0	75	75	37.5	K
	3	2.2	460	60	1.15	4.8	2980	5.5	3420	7.2-8.8	75	75	31	K
	3	2.2	575	60	1.15	3.8	2980	4.4	3420	11.4-13.9	75	75	24.8	K
	5	3.7	200	60	1.15	18.3	5050	20.5	5810	.74-.91	74	74	122	K
	5	3.7	230	60	1.15	15.9	5050	17.8	5810	1.0-1.2	74	74	106	K
	5	3.7	380	60	1.15	9.6	5050	10.8	5810	2.9-3.6	74	74	64.4	K
5	3.7	460	60	1.15	8	5050	8.9	5810	4.0-4.9	74	74	53.2	K	
5	3.7	575	60	1.15	6.4	5050	7.1	5810	6.4-7.8	74	74	42.6	K	
7.5	5.5	200	60	1.15	26.5	7360	30.5	8450	.46-.57	76	76	188	K	
7.5	5.5	230	60	1.15	23	7360	26.4	8450	.61-.75	76	76	164	K	
7.5	5.5	380	60	1.15	13.9	7360	16	8450	1.6-2.0	76	76	99.1	K	
7.5	5.5	460	60	1.15	11.5	7360	13.2	8450	2.5-3.1	76	76	81.9	K	
7.5	5.5	575	60	1.15	9.2	7360	10.6	8450	4.0-5.0	76	76	65.5	K	
10	7.5	380	60	1.15	19.3	10000	21	11400	1.2-1.6	75	75	140	L	
10	7.5	460	60	1.15	15.9	10000	17.3	11400	1.8-2.3	75	75	116	L	
10	7.5	575	60	1.15	12.5	10000	13.6	11400	2.8-3.5	75	75	92.8	L	



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Three Phase Motors

Table 23 Three-Phase Motor Fuse Sizing

TYPE	MOTOR MODEL PREFIX	RATING			CIRCUIT BREAKERS OR FUSE AMPS			CIRCUIT BREAKERS OR FUSE AMPS		
					(MAXIMUM PER NEC)			(TYPICAL SUBMERSIBLE)		
		HP	KW	VOLTS	STANDARD FUSE	DUAL ELEMENT TIME DELAY FUSE	CIRCUIT BREAKER	STANDARD FUSE	DUAL ELEMENT TIME DELAY FUSE	CIRCUIT BREAKER
6.5"	234501	1/2	0.37	200	10	5	8	10	4	15
	234511	1/2	0.37	230	8	4.5	6	8	4	15
	234541	1/2	0.37	380	5	2.5	4	5	2	15
	234521	1/2	0.37	460	4	2.25	3	4	2	15
	234502	3/4	0.55	200	15	7	10	12	5	15
	234512	3/4	0.55	230	10	5.6	8	10	5	15
	234542	3/4	0.55	380	6	3.5	5	6	3	15
	234522	3/4	0.55	460	5	2.8	4	5	3	15
	234503	1	0.75	200	15	8	15	15	6	15
	234513	1	0.75	230	15	7	10	12	6	15
	234543	1	0.75	380	8	4.5	8	8	4	15
	234523	1	0.75	460	6	3.5	5	6	3	15
	234504	1.5	1.1	200	20	12	15	20	8	15
	234514	1.5	1.1	230	15	9	15	15	8	15
	234544	1.5	1.1	380	10	5.6	8	10	4	15
	234524	1.5	1.1	460	8	4.5	8	8	4	15
	234534	1.5	1.1	575	6	3.5	5	6	3	15
	234305	2	1.5	200	25	15	20	25	11	20
	234315	2	1.5	230	25	12	20	25	10	20
	234345	2	1.5	380	15	8	15	15	6	15
	234325	2	1.5	460	15	6	10	11	5	15
	234335	2	1.5	575	10	5	8	10	4	15
	234306	3	2.2	200	35	20	30	35	15	30
	234316	3	2.2	230	30	17.5	25	30	12	25
	234346	3	2.2	380	20	12	15	20	8	15
	234326	3	2.2	460	15	9	15	15	6	15
	234336	3	2.2	575	15	7	10	11	5	15
	234307	5	3.7	200	60	35	50	60	25	50
	234317	5	3.7	230	50	30	40	45	20	40
	234347	5	3.7	380	30	17.5	25	30	12	25
	234327	5	3.7	460	25	15	20	25	10	20
	234337	5	3.7	575	20	12	20	20	8	20
234308	7.5	5.5	200	90	50	70	80	35	70	
234318	7.5	5.5	230	80	45	60	70	30	60	
234348	7.5	5.5	380	45	25	40	40	20	40	
234328	7.5	5.5	460	40	25	30	35	15	30	
234338	7.5	5.5	575	30	17.5	25	30	12	25	
234349	10	7.5	380	70	40	60	60	25	60	
234329	10	7.5	460	60	30	45	50	25	45	
234339	10	7.5	575	45	25	35	40	20	35	
234549	10	7.5	380	70	35	60	60	25	60	
234595	10	7.5	460	60	30	45	50	25	45	
234598	10	7.5	575	45	25	35	40	20	35	



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