

# 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 30 to 220 GPM (113.6 to 832.8 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**  
Prevents back-flow into the well once the pump is shut down.
- **2 to 75 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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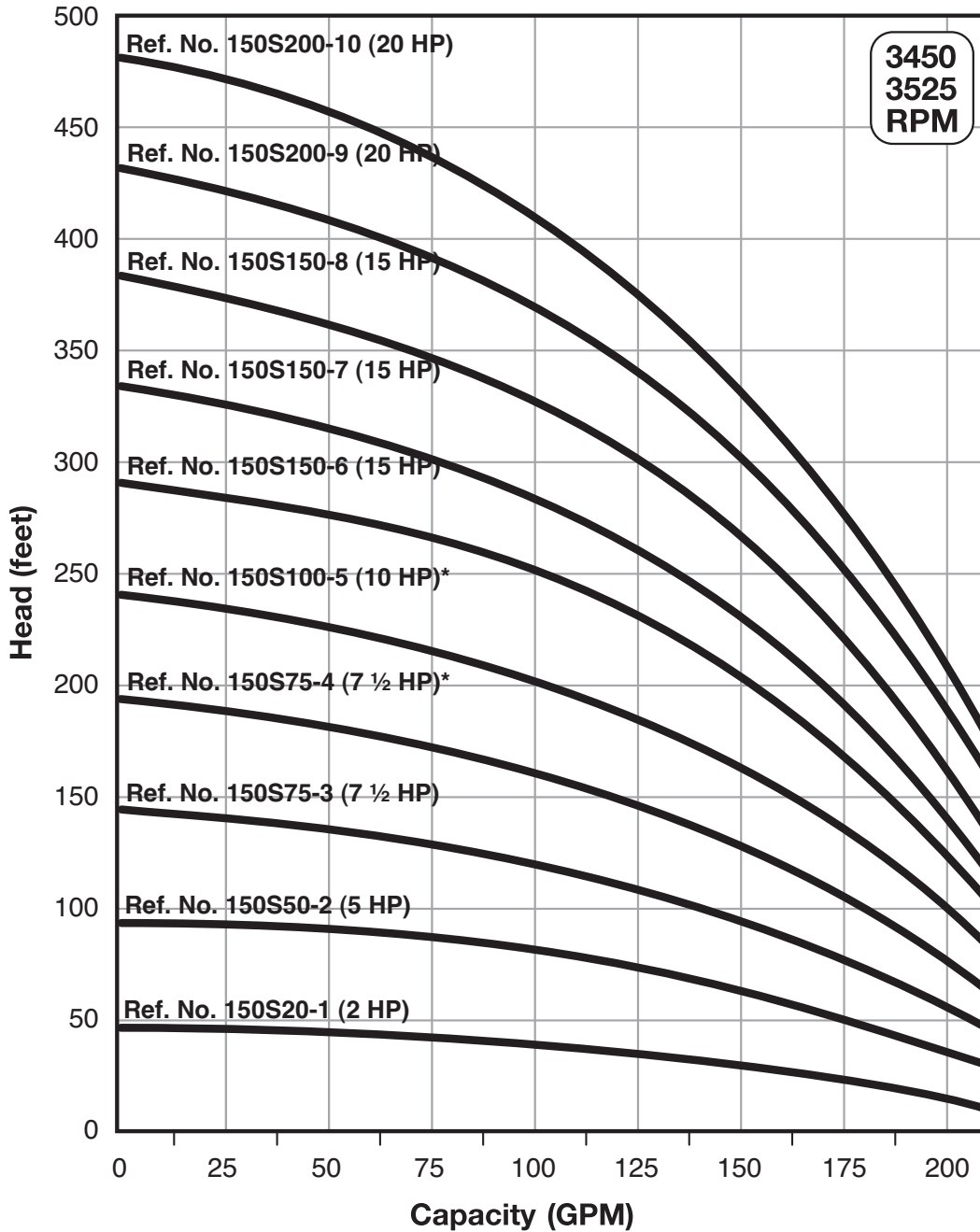
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# Torpedo™ Sideslope Pump Systems

FLOW RANGE: 30 - 220 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



Specifications subject to change without notice.  
 4" motor standard, 2-10 HP/3450 RPM.  
 6" motor standard, 7.5-60 HP/3450 RPM.  
 8" motor standard, 75 HP/3525 RPM.  
 \* Alternate motor sizes available.  
 Performance conforms to ISO 9906 Annex A @ 5 ft. minimum submergence.



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## DIMENSIONS & WEIGHTS

Model No.	HP	Motor Size In.	Discharge Size	Dimensions					Approximate Shipping Wt. Lbs.
				A In.	B In.	C In.	D In.	E In.	
150SRP20-1	2	4	3" NPT	35.3	13.6	13.7	3.75	8.5	60
150SRP50-2	5	4	3" NPT	49.1	23.6	17.5	3.75	8.5	80
150SRP75-3	7½	4	3" NPT	58.9	29.6	21.3	3.75	8.5	97
150SRP75-4	7½	4	3" NPT	62.7	29.6	25.1	3.75	8.5	102
150SRP100-5	10	4	3" NPT	80.8	43.9	28.9	3.75	8.5	156
150SRP75-4	7½	6	3" NPT	57.9	24.2	25.7	5.38	8.5	140
150SRP100-5	10	6	3" NPT	62.9	25.4	29.5	5.38	8.5	153
150SRP150-6	15	6	3" NPT	69.3	28	33.3	5.38	8.5	172
150SRP150-7	15	6	3" NPT	73	28	37	5.38	8.5	174
150SRP150-8	15	6	3" NPT	76.8	28	40.8	5.38	8.5	179
150SRP200-9	20	6	3" NPT	83.2	30.6	44.6	5.38	10.5	196
150SRP200-10	20	6	3" NPT	87	30.6	48.4	5.38	10.5	198
150SRP200-11	20	6	3" NPT	90.8	30.6	52.2	5.38	10.5	203
150SRP250-12	25	6	3" NPT	97	33.1	55.9	5.38	10.5	240
150SRP250-13	25	6	3" NPT	100.8	33.1	59.7	5.38	10.5	243
150SRP250-14	25	6	3" NPT	104.6	33.1	63.5	5.38	10.5	247
150SRP300-15	30	6	3" NPT	111	35.7	67.3	5.38	10.5	265
150SRP300-16	30	6	3" NPT	114.8	35.7	71.1	5.38	10.5	267
150SRP300-17	30	6	3" NPT	118.5	35.7	74.8	5.38	10.5	271

Weights include pump end with motor in lbs.

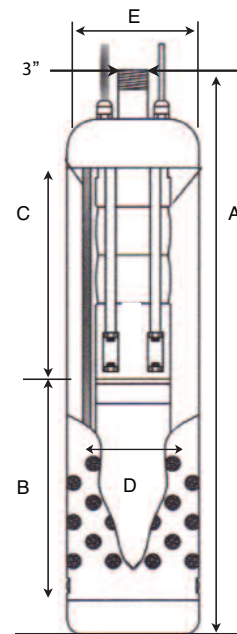
## MATERIALS OF CONSTRUCTION

COMPONENT	CYLINDRICAL SHAFT (1-39 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Seal Ring Support Plate	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	316/329 Stainless Steel**
Pump Shaft	431 Stainless Steel
Intermediate Bearings	Teflon
Impeller Seal Ring	Teflon
Check Valve Seat	Teflon/316 Stainless Steel
Top Bearing	Teflon/304 Stainless Steel
Upthrust Disc	Carbon/Graphite
Upthrust Stop Washer	304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Sleeve*	316 Stainless Steel
Sleeve Flange	304 Stainless Steel

NOTES: Specifications are subject to change without notice.

\*Required for 29-39 stage models.

\*\* 4" Coupling made of 316 Stainless Steel.



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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	<b>110</b>	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	<b>230</b>	370	570	720	880	1090	1330	1640	1970	2390	2720	3100	3480	3800	4420	
	15	11	0	0	0	<b>160</b>	<b>250</b>	390	490	600	740	910	1110	1340	1630	1850	2100	2350	2570	2980	
20	15	0	0	0	0	<b>190</b>	300	380	460	570	700	860	1050	1270	1440	1650	1850	2020	2360		
25	18.5	0	0	0	0	0	<b>240</b>	<b>300</b>	<b>370</b>	460	570	700	840	1030	1170	1330	1500	1640	1900		
30	22	0	0	0	0	0	0	<b>250</b>	<b>310</b>	<b>380</b>	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	<b>140</b>	230	370	590	920	1430	1790	2190	2690	3290	4030	4850	5870	6650	7560	8460	9220		
	7.5	5.5	0	<b>160</b>	260	420	650	1020	1270	1560	1920	2340	2870	3440	4160	4710	5340	5970	6500	7510	
	10	7.5	0	0	<b>190</b>	310	490	760	950	1170	1440	1760	2160	2610	3160	3590	4100	4600	5020	5840	
	15	11	0	0	0	<b>210</b>	330	520	650	800	980	1200	1470	1780	2150	2440	2780	3110	3400	3940	
20	15	0	0	0	0	<b>250</b>	400	500	610	760	930	1140	1380	1680	1910	2180	2450	2680	3120		
25	18.5	0	0	0	0	0	<b>320</b>	400	500	610	750	920	1120	1360	1540	1760	1980	2160	2520		
30	22	0	0	0	0	0	<b>260</b>	<b>330</b>	<b>410</b>	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	<b>200</b>	<b>320</b>	510	800	1250	1930	2380	2910	3570	4330	5230	6260	7390	8280	9340				
	15	11	0	0	<b>370</b>	590	920	1430	1770	2170	2690	3290	4000	4840	5770	6520	7430	8250	8990		
	20	15	0	0	0	<b>440</b>	700	1090	1350	1670	2060	2530	3090	3760	4500	5110	5840	6510	7120	8190	
	25	18.5	0	0	0	<b>360</b>	570	880	1100	1350	1670	2050	2510	3040	3640	4130	4720	5250	5740	6590	
	30	22	0	0	0	0	<b>470</b>	730	910	1120	1380	1700	2080	2520	3020	3430	3920	4360	4770	5490	
	40	30	0	0	0	0	0	<b>530</b>	660	820	1010	1240	1520	1840	2200	2500	2850	3170	3470	3990	
	50	37	0	0	0	0	0	0	<b>540</b>	<b>660</b>	820	1000	1220	1480	1770	2010	2290	2550	2780	3190	
	60	45	0	0	0	0	0	0	0	<b>560</b>	<b>690</b>	850	1030	1250	1500	1700	1940	2150	2350	2700	
	75	55	0	0	0	0	0	0	0	0	<b>570</b>	<b>700</b>	<b>860</b>	1050	1270	1440	1660	1850	2030	2350	
	100	75	0	0	0	0	0	0	0	0	0	<b>510</b>	<b>630</b>	<b>760</b>	910	1030	1180	1310	1430	1650	
125	90	0	0	0	0	0	0	0	0	0	0	0	<b>620</b>	<b>740</b>	<b>840</b>	<b>950</b>	1060	1160	1330		
150	110	0	0	0	0	0	0	0	0	0	0	0	0	<b>620</b>	<b>700</b>	<b>790</b>	<b>880</b>	<b>960</b>	1090		
175	130	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>650</b>	<b>750</b>	<b>840</b>	<b>920</b>	1070		
200	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>630</b>	<b>700</b>	<b>760</b>	<b>880</b>		

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	<b>340</b>	540	850	1340	2090	2600	3200	3930	4810	5900	7110							
	20	15	0	0	<b>410</b>	650	1030	1610	2000	2470	3040	3730	4580	5530							
	25	18.5	0	0	0	<b>530</b>	830	1300	1620	1990	2450	3010	3700	4470	5430						
	30	22	0	0	0	<b>430</b>	680	1070	1330	1640	2030	2490	3060	3700	4500	5130	5860				
	40	30	0	0	0	0	<b>500</b>	790	980	1210	1490	1830	2250	2710	3290	3730	4250				
	50	37	0	0	0	0	0	<b>640</b>	800	980	1210	1480	1810	2190	2650	3010	3420	3830	4180	4850	
	60	45	0	0	0	0	0	<b>540</b>	<b>670</b>	<b>830</b>	1020	1250	1540	1850	2240	2540	2890	3240	3540	4100	
	75	55	0	0	0	0	0	0	0	<b>680</b>	<b>840</b>	1030	1260	1520	1850	2100	2400	2700	2950	3440	
	100	75	0	0	0	0	0	0	0	0	<b>620</b>	<b>760</b>	<b>940</b>	1130	1380	1560	1790	2010	2190	2550	
	125	90	0	0	0	0	0	0	0	0	0	0	<b>740</b>	<b>890</b>	<b>1000</b>	1220	1390	1560	1700	1960	
	150	110	0	0	0	0	0	0	0	0	0	0	0	<b>760</b>	<b>920</b>	<b>1050</b>	<b>1190</b>	1340	1460	1690	
175	130	0	0	0	0	0	0	0	0	0	0	0	0	<b>810</b>	<b>930</b>	<b>1060</b>	<b>1190</b>	1300	1510		
200	150	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>810</b>	<b>920</b>	<b>1030</b>	<b>1130</b>	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	<b>330</b>	530	850	1340	2090	3260	4060												
	20	15	0	<b>410</b>	650	1030	1610	2520	3140	3860	4760	5830									
	25	18.5	0	0	<b>520</b>	830	1300	2030	2530	3110	3840	4710									
	30	22	0	0	<b>430</b>	680	1070	1670	2080	2560	3160	3880	4770	5780	7030	8000					
	40	30	0	0	0	<b>500</b>	790	1240	1540	1900	2330	2860	3510	4230	5140	5830					
	50	37	0	0	0	0	<b>640</b>	1000	1250	1540	1890	2310	2840	3420	4140	4700	5340	5990	6530	7580	
	60	45	0	0	0	0	0	<b>850</b>	1060	1300	1600	1960	2400	2890	3500	3970	4520	5070	5530	6410	
	75	55	0	0	0	0	0	<b>690</b>	<b>860</b>	<b>1060</b>	1310	1600	1970	2380	2890	3290	3750	5220	4610	5370	
	100	75	0	0	0	0	0	0	0	<b>790</b>	<b>970</b>	<b>1190</b>	1460	1770	2150	2440	2790	3140	3430	3990	
	125	90	0	0	0	0	0	0	0	0	<b>770</b>	<b>950</b>	<b>1160</b>	1400	1690	1920	2180	2440	2670	3070	
	150	110	0	0	0	0	0	0	0	0	0	<b>800</b>	<b>990</b>	<b>1190</b>	1440	1630	1860	2080	2270	2640	
175	130	0	0	0	0	0	0	0	0	0	0	<b>870</b>	<b>1050</b>	<b>1270</b>	<b>1450</b>	1650	1860	2030	2360		
200	150	0	0	0	0	0	0	0	0	0	0	0	<b>920</b>	<b>1110</b>	<b>1260</b>	<b>1440</b>	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.



# Three Phase Motors

**Table 24 Three-Phase Motor Specifications (60 Hz)**

TYPE	RATING					FULL LOAD		MAXIMUM (S.F. LOAD)		LINE TO LINE RESISTANCE	EFFICIENCY %		LOCKED ROTOR AMPS	KVA CODE
	HP	KW	VOLTS	HZ	S.F.	AMPS	WATTS	AMPS	WATTS	OHMS	S.F.	FL.		
8.5"	5	3.7	200	60	1.15	17.5	4700	20.0	5400	.77-.93	79	79	99	H
	5	3.7	230	60	1.15	15	4700	17.6	5400	1.0-1.2	79	79	86	H
	5	3.7	380	60	1.15	9.1	4700	10.7	5400	2.6-3.2	79	79	52	H
	5	3.7	460	60	1.15	7.5	4700	8.8	5400	3.9-4.8	79	79	43	H
	5	3.7	575	60	1.15	6	4700	7.1	5400	6.3-7.7	79	79	34	H
	7.5	5.5	200	60	1.15	25.1	7000	28.3	8000	.43-.53	80	80	150	H
	7.5	5.5	230	60	1.15	21.8	7000	24.6	8000	.64-.78	80	80	130	H
	7.5	5.5	380	60	1.15	13.4	7000	15	8000	1.6-2.1	80	80	79	H
	7.5	5.5	460	60	1.15	10.9	7000	12.3	8000	2.4-2.9	80	80	65	H
	7.5	5.5	575	60	1.15	8.7	7000	9.8	8000	3.7-4.6	80	80	52	H
	10	7.5	200	60	1.15	32.7	9400	37	10800	.37-.45	79	79	198	H
	10	7.5	230	60	1.15	28.4	9400	32.2	10800	.47-.57	79	79	172	H
	10	7.5	380	60	1.15	17.6	9400	19.6	10800	1.2-1.5	79	79	104	H
	10	7.5	460	60	1.15	14.2	9400	16.1	10800	1.9-2.4	79	79	86	H
	10	7.5	575	60	1.15	11.4	9400	12.9	10800	3.0-3.7	79	79	69	H
	15	11	200	60	1.15	47.8	13700	54.4	15800	.24-.29	81	81	306	H
	15	11	230	60	1.15	41.6	13700	47.4	15800	.28-.35	81	81	266	H
	15	11	380	60	1.15	25.8	13700	28.9	15800	.77-.95	81	81	161	H
	15	11	460	60	1.15	20.8	13700	23.7	15800	1.1-1.4	81	81	133	H
	15	11	575	60	1.15	16.6	13700	19	15800	1.8-2.3	81	81	106	H
	20	15	200	60	1.15	61.9	18100	69.7	20900	.16-.20	82	82	416	J
	20	15	230	60	1.15	53.8	18100	60.6	20900	.22-.26	82	82	362	J
	20	15	380	60	1.15	33	18100	37.3	20900	.55-.68	82	82	219	J
	20	15	460	60	1.15	26.9	18100	30.3	20900	.8-1.0	82	82	181	J
	20	15	575	60	1.15	21.5	18100	24.2	20900	1.3-1.6	82	82	145	J
	25	18.5	200	60	1.15	77.1	22500	86.3	25700	.12-.15	83	83	552	J
	25	18.5	230	60	1.15	67	22500	75	25700	.15-.19	83	83	480	J
	25	18.5	380	60	1.15	41	22500	46	25700	.46-.56	83	83	291	J
	25	18.5	460	60	1.15	33.5	22500	37.5	25700	.63-.77	83	83	240	J
	25	18.5	575	60	1.15	26.8	22500	30	25700	1.0-1.3	83	83	192	J
	30	22	200	60	1.15	90.9	26900	104	31100	.09-.11	83	83	653	J
	30	22	230	60	1.15	79	26900	90.4	31100	.14-.17	83	83	568	J
30	22	380	60	1.15	48.8	26900	55.4	31100	.35-.43	83	83	317	J	
30	22	460	60	1.15	39.5	26900	45.2	31100	.52-.64	83	83	284	J	
30	22	575	60	1.15	31.6	26900	36.2	31100	.78-.95	83	83	227	J	
40	30	380	60	1.15	66.5	35600	74.6	42400	.26-.33	83	83	481	J	
40	30	460	60	1.15	54.9	35600	61.6	42400	.34-.42	83	83	397	J	
40	30	575	60	1.15	42.8	35600	49.6	42400	.52-.64	83	83	318	H	
50	37	380	60	1.15	83.5	45100	95	52200	.21-.25	82	83	501	H	
50	37	460	60	1.15	67.7	45100	77	52200	.25-.32	82	83	414	H	
50	37	575	60	1.15	54.2	45100	61.6	52200	.40-.49	82	83	331	H	
60	45	380	60	1.15	98.7	53500	111	61700	.15-.18	84	84	627	H	
60	45	460	60	1.15	80.5	53500	91	61700	.22-.27	84	84	518	H	
60	45	575	60	1.15	64.4	53500	72.8	61700	.35-.39	84	84	414	H	

Model numbers above are for three-lead motors. Six-lead motors with different model numbers have the same running performance, but when wye connected for starting have locked rotor amps 33% of the values shown. Six-lead individual phase resistance = table X 1.5.



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# Three Phase Motors

**Table 25 Three-Phase Motor Fuse Sizing**

TYPE	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
<b>8.5"</b>	5	3.7	200	60	35	45	50	25	45
	5	3.7	230	45	30	40	45	20	40
	5	3.7	380	30	17.5	25	30	12	25
	5	3.7	460	25	15	20	25	10	20
	5	3.7	575	20	12	15	20	8	15
	7.5	5.5	200	80	45	70	80	35	70
	7.5	5.5	230	70	40	60	70	30	60
	7.5	5.5	380	45	25	35	40	20	35
	7.5	5.5	460	35	20	30	35	15	30
	7.5	5.5	575	30	17.5	25	25	11	25
	10	7.5	200	100	60	90	100	45	90
	10	7.5	230	90	50	80	90	40	80
	10	7.5	380	60	35	45	50	25	45
	10	7.5	460	45	25	40	45	20	40
	10	7.5	575	35	20	30	35	15	30
	15	11	200	150	90	125	150	60	125
	15	11	230	150	80	110	125	60	110
	15	11	380	80	50	70	80	35	70
	15	11	460	70	40	60	60	30	60
	15	11	575	60	30	45	50	25	45
	20	15	200	200	110	175	175	80	175
	20	15	230	175	100	150	175	70	150
	20	15	380	100	60	90	100	45	90
	20	15	460	90	50	70	80	35	70
	20	15	575	70	40	60	70	30	60
	25	18.5	200	250	150	200	225	100	200
	25	18.5	230	225	125	175	200	90	175
	25	18.5	380	125	80	110	125	50	110
	25	18.5	460	110	60	90	100	45	90
	25	18.5	575	90	50	70	80	35	70
	30	22	200	300	175	250	300	125	250
	30	22	230	250	150	225	250	100	200
	30	22	380	150	90	125	150	60	125
	30	22	460	125	70	110	125	50	100
	30	22	575	100	60	90	100	40	80
	40	30	380	200	125	175	200	90	175
40	30	460	175	100	150	175	70	150	
40	30	575	150	80	110	125	60	110	
50	37	380	250	150	225	250	110	225	
50	37	460	225	125	175	200	90	175	
50	37	575	175	100	150	175	70	150	
60	45	380	300	175	250	300	125	250	
60	45	460	250	150	225	250	100	225	
60	45	575	200	125	175	200	80	175	



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