

POOL AND SPA OEM PUMP/MOTOR REPLACEMENT GUIDE

Square Flange and C-Flange Motors

Understanding The Application			CATEGORY "C" NEMA C-FLANGE KEYED SHAFT																																																																																					
<p>One of the major failure modes for motors is the misapplication of the motor to a particular pump. When selecting your Emerson replacement motor you will need to know six important pieces of information:</p> <ol style="list-style-type: none"> 1) Pump Mounting (ie. Square Flange, C-Flange, etc.) 2) Horsepower 3) Service Factor 4) Voltage 5) Frequency 6) Phase <p>Most of this information can be attained from the motor nameplate. Always be sure that the total of horsepower times service factor of your new Emerson motor is equal to or greater than the total of horsepower times service factor of the original motor.</p>			HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame		Energy Efficient extreme-E 6.5" Frame																																																																																
			1/2	1.60	230/115	EB120	EB656																																																																																	
<p>Total Output HP = (horsepower) X (service factor)</p> <table border="1"> <thead> <tr> <th>Pump OEM</th> <th>Brand Name</th> <th>Category</th> </tr> </thead> <tbody> <tr><td>Aqua Flo</td><td>Dominator</td><td>S</td></tr> <tr><td>Astral</td><td>2000 Series</td><td>J</td></tr> <tr><td>Baker Hydro</td><td>Hydron</td><td>J</td></tr> <tr><td>Hayward</td><td>Super Pump</td><td>J</td></tr> <tr><td>Hayward</td><td>Super Pump II</td><td>J</td></tr> <tr><td>Hayward</td><td>Max-Flo</td><td>J</td></tr> <tr><td>Hayward</td><td>Northstar (extreme-E column)</td><td>J</td></tr> <tr><td>ITT Marlow</td><td>Argonaut</td><td>J</td></tr> <tr><td>Jacuzzi Bros.</td><td>Bronze</td><td>C</td></tr> <tr><td>Jacuzzi Bros.</td><td>Cygnat</td><td>S</td></tr> <tr><td>Jacuzzi Bros.</td><td>Plastic</td><td>J</td></tr> <tr><td>Jacuzzi Bros.</td><td>Magnum/Magnum Force</td><td>J</td></tr> <tr><td>Letro</td><td>Legend</td><td>P</td></tr> <tr><td>Pentair/American</td><td>Ultra-Flow</td><td>S</td></tr> <tr><td>Pentair/Pac Fab</td><td>Challenger</td><td>S</td></tr> <tr><td>Pentair/Pac Fab</td><td>Hydro Pump</td><td>C</td></tr> <tr><td>Pentair/Pac Fab</td><td>Pinnacle</td><td>S</td></tr> <tr><td>Pentair/Purex</td><td>Whisperflo</td><td>S</td></tr> <tr><td>Pentair/Purex/Hydrotech</td><td></td><td>J</td></tr> <tr><td>Polaris</td><td>Vac-Sweep PB4</td><td>P</td></tr> <tr><td>Premier/Springwater</td><td></td><td>C</td></tr> <tr><td>Speck Pumps</td><td>Models 90,98,423,433,21-80</td><td>J</td></tr> <tr><td>Sta-Rite</td><td>Dura-Glas/Maxi-Glas</td><td>S</td></tr> <tr><td>Sta-Rite</td><td>Dura-Glas II/Maxi-Glas II</td><td>S</td></tr> <tr><td>Waterway</td><td>SVL56</td><td>S</td></tr> <tr><td>WMC</td><td></td><td>J</td></tr> </tbody> </table>			Pump OEM	Brand Name	Category	Aqua Flo	Dominator	S	Astral	2000 Series	J	Baker Hydro	Hydron	J	Hayward	Super Pump	J	Hayward	Super Pump II	J	Hayward	Max-Flo	J	Hayward	Northstar (extreme-E column)	J	ITT Marlow	Argonaut	J	Jacuzzi Bros.	Bronze	C	Jacuzzi Bros.	Cygnat	S	Jacuzzi Bros.	Plastic	J	Jacuzzi Bros.	Magnum/Magnum Force	J	Letro	Legend	P	Pentair/American	Ultra-Flow	S	Pentair/Pac Fab	Challenger	S	Pentair/Pac Fab	Hydro Pump	C	Pentair/Pac Fab	Pinnacle	S	Pentair/Purex	Whisperflo	S	Pentair/Purex/Hydrotech		J	Polaris	Vac-Sweep PB4	P	Premier/Springwater		C	Speck Pumps	Models 90,98,423,433,21-80	J	Sta-Rite	Dura-Glas/Maxi-Glas	S	Sta-Rite	Dura-Glas II/Maxi-Glas II	S	Waterway	SVL56	S	WMC		J	3/4	1.50	230/115	EB121	EB634
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1	1.40	230/115	EB122	EB653																																																																																				
1.5	1.30	230/115	EB123	EB795																																																																																				
2	1.20	230	EB124	EB808																																																																																				
3	1.15	208-230		EB817																																																																																				
			CATEGORY "J" NEMA C-FLANGE THREADED SHAFT																																																																																					
			HP	Standard Service Factor	Voltage	Efficiency 6.5" Frame 5.5"Frame		Energy Efficient extreme-E 6.5" Frame																																																																																
			1/2	1.60	230/115	EB126	EST1052	EB657																																																																																
			3/4	1.00	230/115	EB227	EUST1072																																																																																	
				1.50	230/115	EB127	EST1072	EB638																																																																																
			1	1.00	230/115	EB228	EUST1102																																																																																	
				1.40	230/115	EB128	EST1102	EB654																																																																																
			1.5	1.00	230/115	EB229	EUST1152																																																																																	
				1.30	230/115	EB129	EST1152	EB796																																																																																
			2	1.00	230/115	EB230	EUST1202																																																																																	
				1.20	230	EB130	EST1202	EB809																																																																																
			2.5	1.00	230	EB231	EUST1252																																																																																	
			3	1.15	208-230			EB818																																																																																
			5	1.00	208-230			EB819																																																																																
			CATEGORY "P" POOL CLEANERS																																																																																					
			HP	Service Factor	Voltage	Brand	Emerson 56 6.5" Frame																																																																																	
			3/4	1.50	230/115	Polaris	EB625																																																																																	
				1.50	208-230/115	Polaris	EB626																																																																																	
				1.50	230/115	Letro	EB668																																																																																	
			CATEGORY "S" SQUARE FLANGE																																																																																					
			HP	Standard Service Factor	Voltage	Efficiency 6.5" Frame 5.5"Frame		Energy Efficient extreme-E 6.5" Frame																																																																																
			1/2	1.30	230/115	EB856	EUSQ1052																																																																																	
				1.90	230/115	EB846	ESQ1052	EB845																																																																																
			3/4	1.27	230/115	EB852	EUSQ1072																																																																																	
				1.65	230/115	EB847	ESQ1072	EB661																																																																																
			1	1.25	230/115	EB853	EUSQ1102																																																																																	
				1.65	230/115	EB848	ESQ1102	EB841																																																																																
			1.5	1.10	230/115	EB854	EUSQ1152																																																																																	
				1.50	230/115	EB858	ESQ1152	EB842																																																																																
			2	1.10	230/115	EB859	EUSQ1202																																																																																	
				1.30	230	EB748	ESQ1202	EB843																																																																																
			2.5	1.04	230	EB840	EUSQ1252																																																																																	
			3	1.15	208-230			EB844																																																																																
			5	1.00	208-230			EB850																																																																																