

POOL AND SPA OEM PUMP/MOTOR REPLACEMENT GUIDE

Square Flange and G-Flange Motors

Motors and pumps need to be properly matched to one another to provide consistent, predictable performance. When selecting your Emerson® replacement motor you will need to know six important pieces of information:

- 1) Pump Mounting (i.e. Square Flange, G-Flange, etc.)
- 2) Horsepower
- 3) Service Factor
- 4) Voltage
- 5) Frequency
- 6) Phase

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.

$$\text{Total Output HP} = (\text{horsepower}) \times (\text{service factor})$$

Motor OEM	Brand Name	Category	Motor OEM	Brand Name	Category
American	American-Lagler	J	Jetcoast Bros.	Magnum™ (Magnum Force™)	J
American	Ultra-Flow (Power Pump)	S	Letco	Legend™	P
Apex Flo	Ultra Flow	C	Pentair (American)	Ultra Flow™	S
Apex Flo	Domination	J	Pentair/Pac Fab	Challenger™	S
Ascal	2000 Series	J	Pentair/Pac Fab	Hydra Pump™	C
Baker Hydros	Hydron	J	Pentair/Purins	Pinnacle™	S
Hayward	Super Pump™	J	Pentair/Purins/Hydrotech		J
Hayward	Super Pump™ II	J	Polaris	Vac-Saver™ (PB4 Booster Pump)	P
Hayward	Max Flo™	J	Freeman/Springwater		C
Hayward	Northstar	N	Speed Pumps	Model# 90/98/102/107/115/115-40	J
Hayward	Strider™	T	Sta-Rite	Dura-Glar™/Max-Glar™	S
ITT Mailbox	Argonaut	J	Sta-Rite	Dura-Glar™ II/Max-Glar™ II	S
Jacuzzi Bros.	Bronze	C	Waterway	SW56	S
Jacuzzi Bros.	Cypress™	S	West Industries		C
Jacuzzi Bros.	Plastic	J	WMA		J

CATEGORY "C" NEMA G-FLANGE KEYED SHAFT

HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E™ 6.5" Frame
1/2	1.60	230/115	EB120	EB656
3/4	1.50	230/115	EB121	EB634
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 "N" HAYWARD NORTHSTAR G-FLANGE THREADED SHAFT

HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E™ 6.5" Frame
3/4	1.85	208-230/115		ESN1072
1	1.40	208-230/115		ESN1102
1	1.85	208-230/115		ESN1102
1.5	1.25	208-230/115		ESN1152
1.5	1.60	208-230/115		ESN1152
2	1.20	208-230/115		ESN1202
2	1.35	208-230		ESN1202
3	1.20	208-230		ESN1302
3	1.60	208-230		ESN1302

CATEGORY "T" HAYWARD FRISTAR REPLACEMENTS - SQUARE FLANGE

HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E™ 6.5" Frame
1/2	1.88	208-230/115		ET3205
3/4	1.85	208-230/115		ET3207
3/4	1.25	230/115	EB852	
1	1.85	208-230/115		ET3210
1	1.25	230/115	EB853	
1.5	1.60	208-230/115		ET3215
1.5	1.10	230/115	EB854	
2	1.35	208-230		ET3220
2	1.10	230/115	EB859	
2.5	1.04	230	EB840	
3	1.20	208-230		ET3230
3	1.15	208-230	EB844	

CATEGORY "J" NEMA G-FLANGE THREADED SHAFT

HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Standard Efficiency 5.5" Frame	Energy Efficient extreme-E™ 6.5" Frame	Energy Efficient extreme-E™ 5.5" Frame
1/2	1.60	230/115	EB126	EST1052	EB657	ECT1052
3/4	1.00	230/115	EB227	EST1072		ECT1072
	1.50	230/115	EB127	EST1072	EB638	ECT1072
1	1.00	230/115	EB228	EST1102		ECT1102
	1.40	230/115	EB128	EST1102	EB654	ECT1102
1.5	1.00	230/115	EB229	EST1152		
	1.30	230/115	EB129	EST1152	EB796	
2	1.00	230/115	EB230	EST1202		
	1.20	230	EB130	EST1202	EB809	
2.5	1.00	230	EB231	EST1252		
3	1.15	208-230			EB818	
5	1.00	208-230			EB819	

CATEGORY "S" SQUARE FLANGE

HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Standard Efficiency 5.5" Frame	Energy Efficient extreme-E™ 6.5" Frame	Energy Efficient extreme-E™ 5.5" Frame
1/2	1.30	230/115	EB856	ESQ1052		
	1.50	230/115	EB846	ESQ1052	EB845	EQC1052
3/4	1.27	230/115	EB852	ESQ1072		EQC1072
	1.65	230/115	EB847	ESQ1072	EB841	EQC1072
1	1.25	230/115	EB853	ESQ1102		EQC1102
	1.65	230/115	EB848	ESQ1102	EB841	EQC1102
1.5	1.10	230/115	EB854	ESQ1152		EQC1152
	1.50	230/115	EB858	ESQ1152	EB842	
2	1.10	230/115	EB859	ESQ1202		
	1.30	230	EB748	ESQ1202	EB843	
2.5	1.04	230	EB840	ESQ1252		
3	1.15	208-230	EB844		EB844	
5	1.00	208-230			EB850	

CATEGORY "P" POOL CLEANERS

HP	Service Factor	Voltage	Brand	Emerson S6™ 6.5" Frame
3/4	1.50	230/115	Polaris	EB825
	1.50	208-230/115	Polaris	EB826
	1.50	230/115	Letco	EB868

Emerson Motor Cross Reference Guide

William Swan Sonnenschein



Emerson Motor Cross Reference Guide:

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level and roof appurtenances may be welded during the filling of the tank

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