

# 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 (ie. 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 Hydrex  | Hydrex                  | J        | Pentair/Pumps           | Pinnacle™                    | S        |
| Hayward       | Super Pump™             | J        | Pentair/Pumps/Hydrotech |                              | J        |
| Hayward       | Super Pump™ II          | J        | Polaris                 | Vac-Saver™ (P/N Number Pump) | P        |
| Hayward       | Max Flo™                | J        | Freeman/Springwater     |                              | C        |
| Hayward       | Northstar               | N        | Speed Pumps             | Model# 90/98/102/107/115/115 | J        |
| Hayward       | Strider™                | T        | Sea-Rite                | Dura-Glar™/Max-Glar™         | S        |
| ITT Mailbox   | Argonaut                | J        | Sea-Rite                | Dura-Glar™ II/Max-Glar™ II   | S        |
| Jacuzzi Bros. | Bronze                  | C        | Waterway                | SW56                         | S        |
| Jacuzzi Bros. | Copier™                 | S        | West Industries         |                              | C        |
| Jacuzzi Bros. | Plastic                 | J        | WMA                     |                              | J        |

### CATEGORY "C" NEMA G-FLANGE KEYED SHAFT

| HP  | Service Factor | Voltage | Standard Efficiency<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>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<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>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<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>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<br>6.5" Frame | Standard Efficiency<br>5.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>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<br>6.5" Frame | Standard Efficiency<br>5.5" Frame | Energy Efficient<br>extreme-E™<br>6.5" Frame | Energy Efficient<br>extreme-E™<br>5.5" Frame |
|-----|----------------|---------|-----------------------------------|-----------------------------------|----------------------------------------------|----------------------------------------------|
| 1/2 | 1.30           | 230/115 | EB856                             | ESQ1052                           |                                              | EQC1052                                      |
|     | 1.50           | 230/115 | EB846                             | ESQ1052                           | EB845                                        | EQC1052                                      |
| 3/4 | 1.27           | 230/115 | EB852                             | ESQ1072                           |                                              | EQC1072                                      |
|     | 1.65           | 230/115 | EB847                             | ESQ1072                           | EB846                                        | EQC1072                                      |
| 1   | 1.25           | 230/115 | EB853                             | ESQ1102                           |                                              | EQC1102                                      |
|     | 1.65           | 230/115 | EB848                             | ESQ1102                           | EB847                                        | 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™<br>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

**Puja Mehta**



## **Emerson Motor Cross Reference Guide:**

The Top Books of the Year Emerson Motor Cross Reference Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Emerson Motor Cross Reference Guide : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Emerson Motor Cross Reference Guide : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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