Century®

Green Choice®
Eco - Friendly Electric Motors

# Pump Motors for Swimming Pools, Spas & Jetted Tubs

Bulletin 1081

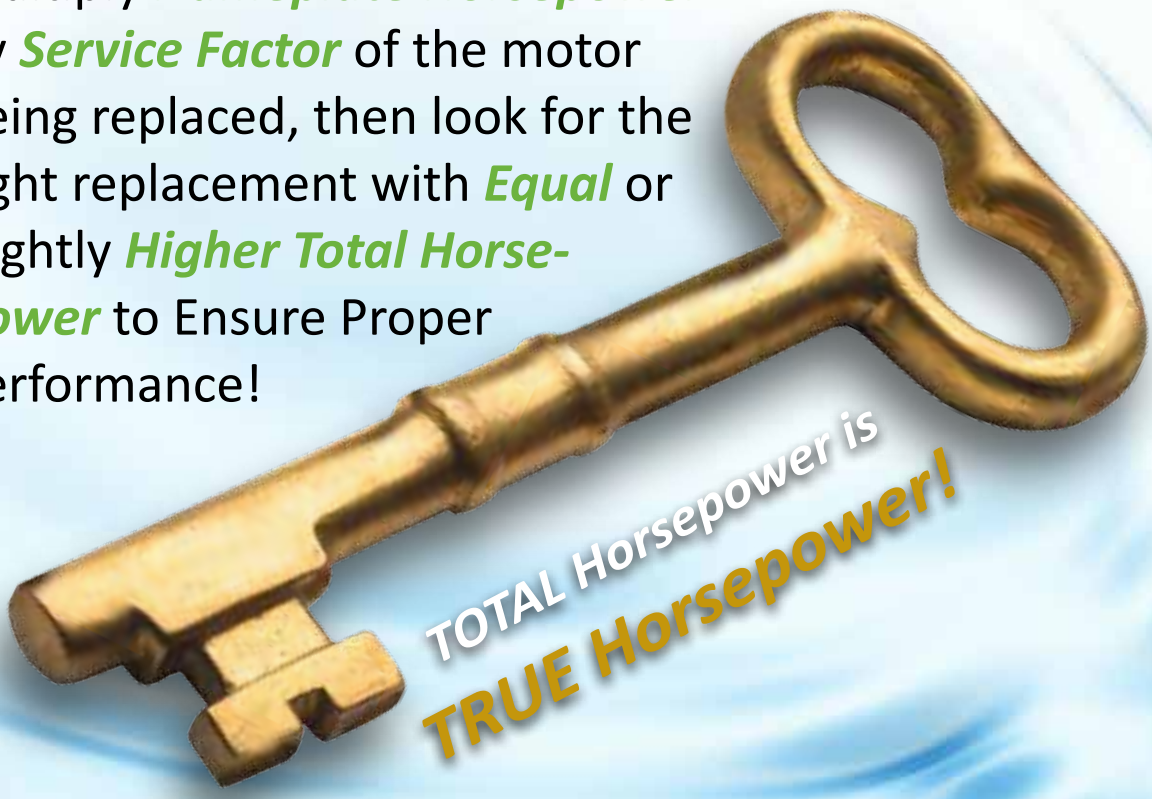
A Regal Brand

REGAL

Century®

# *The **Key** to Choosing the Correct* **Replacement Pool Pump Motor –**

Multiply ***Nameplate Horsepower*** by ***Service Factor*** of the motor being replaced, then look for the right replacement with ***Equal*** or slightly ***Higher Total Horse-power*** to Ensure Proper Performance!




## HP X SF = THP

### THESE TWO MOTORS ARE NOT THE SAME

| USQ1102 | |
|---|---|
| THERMALLY PROTECTED | |
| MOTOR MOD C48K2PA104A3 | SER |
| VOLTS 115/230 | HP 1 |
| MAX LOAD AMPS 15.3/7.6 | PH 1 |
| RPM 3450 FR 48Y | HZ 60 |
| | SF 1.25 |
| INSUL CLASS B AMB 50°C TIME RATING | CONT. |
| TYPE UAC CENTURY | |

1 HP X 1.25 SF = 1.25 THP

| SQ1102 | |
|---|---|
| THERMALLY PROTECTED | |
| MOTOR MOD C48L2PA103A3 | SER |
| VOLTS 115/230 | HP 1 |
| MAX LOAD AMPS 19.2/9.6 | PH 1 |
| RPM 3450 FR 48Y | HZ 60 |
| | SF 1.65 |
| INSUL CLASS B AMB 50°C TIME RATING | CONT. |
| TYPE UAC CENTURY | |

1 HP X 1.65 SF = 1.65 THP

### THESE TWO MOTORS ARE THE SAME

| SQ1072 | |
|---|---|
| THERMALLY PROTECTED | |
| MOTOR MOD C48K2PA104A2 | SER |
| VOLTS 115/230 | HP 3/4 |
| MAX LOAD AMPS 15.3/7.6 | PH 1 |
| RPM 3450 FR 48Y | HZ 60 |
| | SF 1.65 |
| INSUL CLASS B AMB 50°C TIME RATING | CONT. |
| TYPE UAC CENTURY | |

.75 HP X 1.65 SF = 1.25 THP

| USQ1102 | |
|---|---|
| THERMALLY PROTECTED | |
| MOTOR MOD C48K2PA104A3 | SER |
| VOLTS 115/230 | HP 1 |
| MAX LOAD AMPS 15.3/7.6 | PH 1 |
| RPM 3450 FR 48Y | HZ 60 |
| | SF 1.25 |
| INSUL CLASS B AMB 50°C TIME RATING | CONT. |
| TYPE UAC CENTURY | |

1 HP X 1.25 SF = 1.25 THP

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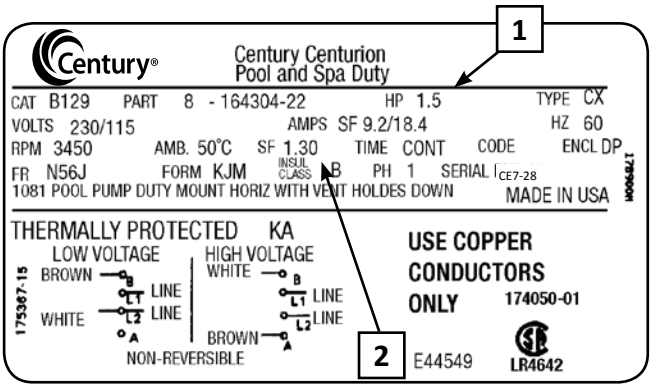
# Centurion Pool & Spa Square Flange & C-face Replacement Guide

Before using the Pool & Spa Motor Replacement Guide, you will need to know the horsepower (1), the service factor (2) of the original motor, and the name and/or the manufacturer of the pump on which the motor is used. The sample nameplate below shows the location of the horsepower and service factor.




Find your pump brand, listed in alphabetical order at the right. Read across from the pump name and find the group of Century® catalog motors that will mechanically fit. These groups are labeled "A" through "E". The service factor for each horsepower is shown in these groups below. Match the manufacturer of the pump, the horsepower, and the service factor and you will have a suitable replacement motor.

| Name of Pump OEM or Brand Name | Group |
|---|---|
| Americana, American Eagle | A |
| American Ultra-flow or Power Pump | C |
| Aqua Flo C-face | B |
| Aqua Flo Dominator | A,B,C |
| Arneson Pool Sweep | D |
| Hayward Northstar | E |
| Baker Hydro Hydron | A |
| Hayward Super Pump or Super Pump II | A |
| Hayward Max-Flo | A |
| ITT Marlow Argonaut | A |
| Jacuzzi Bros. Bronze | B |
| Jacuzzi Bros. Cygnet | C |
| Jacuzzi Bros. Plastic | A |
| Jacuzzi Bros. Magnum (E-Plus® columns only) | A |
| Letro | D |
| Pac Fab Challenger | C |
| Pac Fab Hydro Pump | B |
| Pac Fab Pinnacle | C |
| Polaris Vac-Sweep PB4 Booster Pump | D |
| Premier/Springwater | B |
| Purex/Hydrotech | A |
| Purex Whisperflo | C |
| Sta-Rite Dura-Glas or Max-E-Glas | C |
| Sta-Rite Dura-Glas II or Max-E-Glas II | C |
| Speck Pumps, Models 90, 98, 423, 433, 21-80 | A |
| Wet Institute | B |
| Zodiac (Jandy) Stealth | A,C |

Two-speed and three-phase motors available for most applications. Contact your distributor or Century® for more details.

### Group "A"

C-face Threaded Shaft (56J)

| Hp | Service Factor | Voltage | CENTURION® Standard Efficiency Alum. Cat. No. | E-PLUS® Energy Efficient Alum. Cat. No. |
|---|---|---|---|---|
| 1/2 | 1.60 | 230/115 | B126 | B657 |
| 3/4 | 1.00 | 230/115 | B227SE | B657 |
| | 1.50 | 230/115 | B127 | B638 |
| 1 | 1.00 | 230/115 | B228SE | B638 |
| | 1.40 | 230/115 | B128 | B654 |
| 1 1/2 | 1.00 | 230/115 | B229SE | B654 |
| | 1.30 | 230/115 | B129 | B796 |
| 2 | 1.00 | 230/115 | B230SE | B796 |
| | 1.20 | 230/115 | B836 | — |
| | 1.20 | 230 | B130 | B809 |
| 2 1/2 | 1.00 | 230 | B231SE | B809 |
| 3 | 1.15 | 230 | B131 | B818 |
| 4 | 1.25 | 230 | — | B116 |

### Group "B"

C-face Keyed Shaft (56C)

| Hp | Service Factor | Voltage | Centurion® Standard Efficiency Alum. Cat. No. | E-Plus® Energy Efficient Alum. Cat. No. |
|---|---|---|---|---|
| 1/2 | 1.60 | 230/115 | B120 | — |
| 3/4 | 1.50 | 230/115 | B121 | — |
| 1 | 1.40 | 230/115 | B122 | B653 |
| 1 1/2 | 1.30 | 230/115 | B123 | B795 |
| 2 | 1.20 | 230/115 | B835 | — |
| | 1.20 | 230 | B124 | B808 |
| 3 | 1.15 | 230 | B125 | B817 |

### Group "C"

Square Flange

| Hp | Service Factor | Voltage | CENTURION® Standard Efficiency Cat. No. | E-Plus® Energy Efficient Cat. No. |
|---|---|---|---|---|
| 1/3 | 1.95 | 230/115 | — | — |
| 1/2 | 1.30 | 23~0/115 | B2852 | — |
| | 1.95 | 230/115 | B2846 | B845 |
| 3/4 | 1.25 | 230/115 | B2852 | — |
| | 1.65 | 230/115 | B2847 | B2661 |
| 1 | 1.25 | 230/115 | B2853 | — |
| | 1.65 | 230/115 | B2848 | B2841 |
| 1 1/2 | 1.10 | 230/115 | B2854 | — |
| | 1.50 | 230/115 | B2858 | — |
| | 1.50 | 230 | B849 | B2842 |
| 2 | 1.10 | 230 | B855 | — |
| | 1.30 | 230 | B2748 | B2843 |
| 2 1/2 | 1.04 | 230 | B2840 | — |
| 3 | 1.15 | 208-230 | — | B2844 |

### Group "D"

Pool Cleaner Replacement

| Hp | Service Factor | Voltage | Shaft | Brand | Cat. No. |
|---|---|---|---|---|---|
| 3/4 | 1.50 | 230/115 | Threaded | Polaris | B625 |
| | 1.50 | 230/115 | Threaded | Arneson Uniseal | B662 |
| | 1.50 | 230/115 | Threaded | Arneson Uniseal | B663 |
| | 1.50 | 230/115 | Threaded | Letro | B667 |
| | 1.50 | 230/115 | Threaded | Letro | B668 |

### Group "E"

Northstar Hayward

| Hp | Factor | Service Voltage | Cat. No. |
|---|---|---|---|
| 3/4 | 1.85 | 208-230/115 | SN1072 |
| 1 | 1.40 | 208-230/115 | USN1102 |
| 1 | 1.85 | 208-230/115 | SN1102 |
| 1- 1/2 | 1.25 | 208-230/115 | USN1152 |
| 1- 1/2 | 1.60 | 208-230/115 | SN1152 |
| 2 | 1.20 | 208-230/115 | USN1202 |
| 2 | 1.35 | 208-230 | SN1202 |
| 3 | 1.20 | 208-230 | USN1302 |
| 3 | 1.60 | 208-230 | SN1302 |


Phone: 866.887.5216

# Pool, Spa and Jetted Tubs
# Thru-Bolt Motor Replacement Guide

**To select the correct thru-bolt replacement motor, complete steps 1 through 4.**

1. Is the manufacturer and model of your pump in the list of pump manufacturers and models below? If yes, the Century® motors from **Group S** and **Group T** in the tables below will fit your pump.
2. Identify the maximum rated horsepower of your motor. **Maximum Rated Hp = Horsepower (Hp) x Service Factor (SF)**

   Replacement motor horsepower must be equal to or greater than maximum rated horsepower.
3. What is the voltage?
4. Is the motor single- or two-speed? If single-speed select motor from **Group S**. If two-speed, select motor from **Group T**.

## **Group S** Single-speed

| Hp (Max. Rated) | Voltage | Cat. No. |
|---|---|---|
| 1/2 | 115 | BN23V1 |
| 3/4 | 115 | BN24V1 |
| 1 | 115 | BN25V1 |
| 1 1/2 | 230/115 | BN35SS |
| 1 1/2 | 115 | BV35V1 |
| 2 | 230/115 | BN40SS |

| Pump Manufacturer & Model | Group |
|---|---|
| **American Products** | |
| American II | S or T |
| Maxim "C" | S or T |
| Maxim "S" | S or T |
| **Aqua Flo** | |
| Flo-Master | S or T |
| Tub Master | S |
| **G/G Industries** | |
| Olympian | S |
| **Gruber** | |
| Dura-Flo | S |
| **Hayward Mfg.** | |
| Matrix Series | S |
| Power Flo 1500 Series | S |
| Power Flo II 1700 Series | S |
| Power Flo II 1900 Series | S |
| Power Flo UN Series | S or T |
| Power Flo UN-LX Series | S or T |
| Power Flo II UN Series | T |
| Power Flo 1900SD Series | S |

**Hoffinger, Doughboy and Lomart**

| Cat. No. | Hp | Threads | Rotation | Replaces Hoffinger # |
|---|---|---|---|---|
| BV90 | 1.0 | Right Hand | CW | 300-1028 (1 Hp)<br>300-1027 (3/4 Hp) |
| BV91 | 1.0 | Left Hand | CCW | 300-1043 (1 Hp)<br>300-1017 (3/4 Hp) |

| Pump Manufacturer & Model | Group |
|---|---|
| **Jacuzzi Bros.** | |
| Inno-Tech J Series | S |
| JCM Series | S |
| Vector LVL Series* | S |

## **Group T** Two-speed

| Hp (Max. Rated) | Voltage | Cat. No. |
|---|---|---|
| 3/4 /.10 | 115 | BN36 |
| 1/.12 | 115 | BN37V1 |
| 1/.16 | 115 | BN37V1 |
| 1 1/2 /.25 | 115 | BN50V1 |
| 1 1/2 /.18 | 115 | BN50V1 |
| 1 1/2 /.18 | 230 | BN34V1 |
| 2 /.25 | 230 | BN51 |
| 2 /.25 | 230 | BN61 |

| Pump Manufacturer & Model | Group |
|---|---|
| **Jacuzzi Bros. (continued)** | |
| LTVL Series | T |
| SLR Series | S |
| LRDV Series | S |
| LCU Series | S or T |
| LTCU Series | T |
| LCM Series | S |
| LTCM Series | T |
| **PAC-FAB** | |
| Dynamo | S or T |
| Dynamite | S or T |
| **Premier/Springwater** | |
| 220-225-255 MKii Series | S or T |
| 300, 320, 325, 355 Series | S |
| **Speck** | |
| Model E90 and E91 | S or T |
| **Sta-Rite** | |
| Dura-Jet | S or T |
| **Vico/Ultra-Jet** | S |
| Ultra Flow | S |
| **Waterway** | |
| Bath Pump Self Drain | S |
| Hi-Flo Side Discharge | S or T |
| Hi-Flo Center Discharge | S or T |
| SVL56 | C |
| Super Flo Side Discharge | S or T |
| Workhorse Side Discharge | S or T |

**Note:**

* Pump rated for 115/230 Volt, check voltage supply to ensure replacement motor is suitable.

# Century® Two Compartment Motor Replacement Guide

## Group "SK"

| Hp | Service Factor | Voltage | Stock Number | Conservationist |
|---|---|---|---|---|
| 1/2 | 1.6 | 115/230 | SK1052 | CK1052 |
| 3/4 | 1.5 | 115/230 | SK1072 | CK1072 |
| 1 | 1.5 | 115/230 | SK1102 | CK1102 |
| 1.5 | 1.3 | 115/230 | SK1152 | SK1152 |
| 2 | 1.3 | 230 | SK1202 | SK1202 |
| 3 | 1.115 | 230 | SK1302V1 | SK1302V1 |

## Group "SQ"

| Hp | Service Factor | Voltage | Stock Number | Conservationist |
|---|---|---|---|---|
| 1/2 | 1.9 | 115/230 | SQ1052 | QC1052 |
| 1/2 | 1.3 | 115/230 | USQ1052 | |
| 3/4 | 1.65 | 115/230 | SQ1072 | QC1072 |
| 3/4 | 1.27 | 115/230 | USQ1072 | UQC1072 |
| 1 | 1.65 | 115/230 | SQ1102 | QC1102 |
| 1 | 1.25 | 115/230 | USQ1102 | UQC1102 |
| 1-1/2 | 1.47 | 230 | SQ1152 | SQ1152 |
| 1-1/2 | 1.1 | 115/230 | USQ1152 | UQC1152 |
| 2 | 1.3 | 230 | SQ1202 | SQ1202 |
| 2 | 1.1 | 230 | USQ1202 | USQ1202 |
| 2-1/2 | 1.0 | 230 | USQ1252 | USQ1252 |
| 3 | 1.15 | 230 | SQ1302V1 | SQ1302V1 |

## Group "ST"

| Hp | Service Factor | Voltage | Stock Number | Conservationist |
|---|---|---|---|---|
| 1/2 | 1.6 | 115/230 | ST1052 | CT1052 |
| 3/4 | 1.5 | 115/230 | ST1072 | CT1072 |
| 3/4 | 1.0 | 115/230 | UST1072 | |
| 1 | 1.5 | 115/230 | ST1102 | CT1012 |
| 1 | 1.0 | 115/230 | UST1102 | |
| 1-1/2 | 1.3 | 115/230 | ST1152 | ST1152 |
| 1-1/2 | 1.0 | 115/230 | UST1152 | |
| 2 | 1.3 | 208-230 | ST1202 | ST1202 |
| 2 | 1.0 | 115/230 | UST1202 | |
| 2-1/2 | 1.0 | 208-230 | UST1252 | |
| 3 | 1.15 | 208-230 | ST1302V1 | ST1302V1 |

## Above Ground and Spa Applications

| Hp | Service Factor | Voltage | Stock Number |
|---|---|---|---|
| 1/2 | 1.0 | 115 | BN23V1 |
| 3/4•1/8 | 1.0 | 115 | BN36* |
| 3/4 | 1.0 | 115 | BN24V1 |
| 1•1/6 | 1.0 | 115 | BN37V1* |
| 1 | 1.0 | 115 | BN25V1 |

**Notes:**
*2 Speed
Please contact your local distributor with motor model number, frame size, horsepower, service factor, voltage and pump OEM model number for proper spa or above ground motor identification.

| Name of Pump OEM or Brand Name | Group Class |
|---|---|
| Americana, American Eagle | ST |
| American Ultra Flow or Power Pump | SQ |
| Aqua-Flo C-Face | SK |
| Aqua-Flo Dominator | SQ |
| Hayward Super & Super II | ST |
| Hayward Max-Flo | ST |
| Hydrotech | ST |
| ITT Marlow Argonaut | ST |
| Jacuzzi Bronze, Plastic | SK |
| Jacuzzi Magnum | ST |
| Pac Fab Challenger | SQ |
| Pac Fab Hydro Pump | SK |
| Premier/Springwater | SK |
| Starite Duraglas or Maxiglas | SQ |
| Speck | ST |
| Wet Institute | SK |

**Please Note:**

Every effort has been made to ensure the accuracy of this guide.

Century® cannot, however, accept responsibility for ultimate selection. OEM design changes and variations from one OEM to another may result in different construction, dimensions or operating characteristics. It is the installer's responsibility to confirm the acceptability of the suggested replacement.


Phone: 866.887.5216

# VGreen® 165
## Premium Pool & Spa Motors

Variable Speed ECM

### FEATURES

- Integrated User Interface
- Timer Mode
- Manual Mode
- Freeze Protection
- Noise Reduction Design
- Factory Default Settings Reset
- Ball Bearing
- TEFC
- Rotation: CCWPE
- Single Phase
- Schedule Advance
- Full Variable Speed (600-3450 RPM)
- Max Output of 1.65 THP
- ECM Design
- Program Memory Back-Up
- 303 Stainless Steel Shaft
- Class F Insulation
- 50˚C Ambient
- UV and Rain-Proof Enclosure
- Keypad Lockout
- Digital Inputs for Third Party Automation
- VGreen 270 User Interface* Compatibility

**Specially Programmed User Interface Sold Separately*

| THP | RPM | Volts | Max Amps** | Service Factor | Flange | Percent Energy Savings* | VGreen 165 Stock Number |
|---|---|---|---|---|---|---|---|
| 1/2 min. to 1.65 max. | 600-3450 | 208-230 | 10.5-10.0 | 1.0 | Square | 80% | **ECM16SQU** |
| 1/2 min. to 1.65 max. | 600-3450 | 208-230 | 10.5-10.0 | 1.0 | C-Face | 80% | **ECM16CU** |

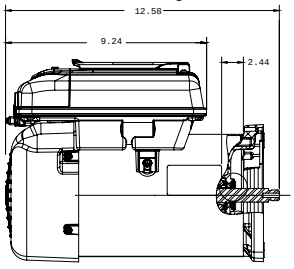
**Savings over the equivalent single-speed motor.* ***Max Amp Draw is dependent on motor speed and impeller rating.*

### *The reasons a VGreen® 165 premium-efficiency replacement motor can offer such impressive savings are numerous including:*

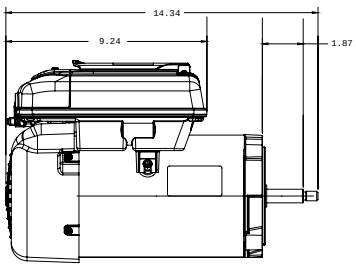
An integrated user interface that allows for easier installation and operation of a variable speed motor. The all-in-one design reduces installation time and expense with no additional wiring required.

The amount of power required to move the water through the pipes drops much more quickly than the speed. While it may take one horsepower to move the water through the pipes on high speed, it only takes 1/8 horsepower to move one half as much water through those same pipes on low speed. Even when run on low speed twice as long to pump the same amount of water as on high speed, the lower horsepower results in significant energy savings.

**ECM16SQU**




**ECM16CU**




**Important:**

The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

**Warranty Period** - VGreen motors are warranted against defects in materials and workmanship for a period of 18 months from the date of installation or 24 months from the date of manufacture, whichever comes first.

# Premium Efficiency Variable Speed Motor

VGreen® 270

Green Choice®
Eco - Friendly Electric Motors

## Features:

- Integrated Timer Interface
- On-and Off-Board Mountable Interface
- Timer Mode
- Manual Mode
- Freeze Protection
- Auxiliary Load Capacity
- Configurable Prime Settings
- Noise Reduction Design
- Adjustable Contrast
- Power Factor Correction
- Factory Reset
- Battery Backup - Program Saver
- LCD Display with Backlight
- Ball Bearing
- TEFC
- Rotation: CCWPE
- Single Phase
- 303 Stainless Steel Shaft
- Class F Insulation
- 50˚C Ambient
- UV and Rain-Proof Enclosure

| THP | RPM | Volts | Service Factor | Full Load Amps | Stock Number | Flange | Percent Energy Savings* |
|---|---|---|---|---|---|---|---|
| 3/4 min. to 2.7 max | 3450/600 | 230 | 1.0 | 10.5/0.5 | **ECM27SQU** | Square | 80% |
| 3/4 min. to 2.7 max | 3450/600 | 230 | 1.0 | 10.5/0.5 | **ECM27CU** | C-Face | 80% |

*Savings over the equivalent single-speed motor.
Energy savings range of 40% - 80% or more depending on variables including user defined speed settings, duration of operation, environment, and unique hydraulic requirements for satisfactory pool filtration. See the Energy Savings Calculator at **www.pool-motors.com** to estimate savings potential.

### *The reasons a VGreen® 270 premium-efficiency replacement motor can offer such impressive savings are numerous including:*

An integrated timer interface that allows for easier installation and operation of a variable speed motor. The all-in-one design reduces installation time and expense with no additional wiring required. The interface can be installed off-board at the pool owner's discretion with kit #2512723-001 (sold separately).

The amount of power required to move the water through the pipes drops much more quickly than the speed. While it may take one horsepower to move the water through the pipes on high speed, it only takes 1/8 horsepower to move one half as much water through those same pipes on low speed. Even when run on low speed twice as long to pump the same amount of water as on high speed, the lower horsepower results in significant energy savings.

**VGREEN AUTOMATION ADAPTER KIT** (Sold Separately)
#2517501-001 (gray terminal box cover); #2517501-002 (black terminal box cover)

**VGREEN OFF BOARD MOUNTING KIT** (Sold Separately)
#2512723-001

**Important:**
The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

**Warranty Period** - VGreen motors are warranted against defects in materials and workmanship for a period of 18 months from the date of installation or 24 months from the date of manufacture, whichever comes first.

# Premium Efficiency Two-Speed Pool and Spa Motor with Integrated Timer

B2980T

2Green®

*A premium efficiency motor in the Centurion motor family.*

Green Choice®
Eco - Friendly Electric Motors

## Features:

- Integrated Timer Interface
- Timer Mode
- Adjustable Contrast
- Manual Mode
- Over Current Protection
- Battery Backup - Program Saver
- LCD Display with Backlight
- Ball Bearing
- Class B Insulation
- 50˚C Ambient
- High Efficiency High and Low Speed
- Open Dripproof
- Rotation: CCW Pump End
- Single Phase
- 303 Stainless Steel Shaft

### Two-Speed - "1081" Capacitor Run Low Speed, PSC High Speed, Sq. Flange

| HP | RPM | Volts | Service Factor | Service Factor Amps | Stock Number | Total HP | Percent Energy Savings* | Yearly $ Savings** |
|---|---|---|---|---|---|---|---|---|
| **.75 / .10** | 3450/1725 | 230 | 1.67 | 6.0/1.0 | **B2980T** | 1.25 | 58% | $633.32 |
| **.75 / .10** | 3450/1725 | 115 | 1.67 | 12.4/2.2 | **B2981T** | 1.25 | 55% | $606.29 |
| **1.0 / .13** | 3450/1725 | 230 | 1.65 | 7.4/1.4 | **B2982T** | 1.65 | 51% | $625.60 |
| **1.5 / .19** | 3450/1725 | 230 | 1.47 | 10.0/1.6 | **B2983T** | 2.21 | 51% | $687.79 |
| **2.0 / .25** | 3450/1725 | 230 | 1.30 | 11.0/1.8 | **B2984T** | 2.60 | 53% | $634.53 |

*Savings over the equivalent single speed motor.
**Calculated @ $.23 per Kilowatt hour, pumping same amount of water as a single speed motor, eight hours per day.
See the Energy Savings Calculator at: **www.pool-motors.com**

# Century® C-Face Pool and Spa Motors with Timer

## Features:

- Integrated Timer Interface
- Timer Mode
- Adjustable Contrast
- Manual Mode
- Over Current Protection
- Battery Backup - Program Saver
- LCD Display with Backlight
- Ball Bearing
- Class B Insulation
- 40˚C Ambient
- High Efficiency High and Low Speed
- Open Dripproof
- Rotation: CCW Pump End
- Single Phase
- 303 Stainless Steel Shaft

### Two Speed "1081" Capacitor Run Low Speed, PSC High Speed, C-Face

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Overload Protector | Shaft | "C" Dimension | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **.75 / .10** | 3450/1725 | 115 | 12.2/2.2 | 1.50 | 1.13 | 56J | **B2973T** ★ | Auto | Threaded | 12.30 | 12,**$** |
| **1.0 / .12** | 3450/1725 | 230 | 6.1/1.5 | 1.40 | 1.40 | 56J | **B2975T** ★ | Auto | Threaded | 13.05 | 12,**$** |
| **1.5 / .20** | 3450/1725 | 230 | 8.7/1.9 | 1.20 | 1.95 | 56J | **B2977T** ★ | Auto | Threaded | 13.05 | 12,**$** |
| **2.0 / .25** | 3450/1725 | 230 | 11.0/1.6 | 1.20 | 2.4 | 56J | **B2979T** ★ | Auto | Threaded | 13.55 | 12,**$** |
| **3.0 / .38** | 3450/1725 | 230 | 13.8/4.0 | 1.15 | 3.45 | 56J | **B966T** ★ | Auto | Threaded | 14.29 | 12,68,**$** |

**Notes:**
**$** Energy efficient
12. 303 Stainless steel shaft
68. PSC motor
★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

**Important:**
The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# Centurion® PRO

PREMIUM POOL & SPA MOTORS

## Built for Pool Professionals by Pool Professionals

HSQ095

## Features:

- NEW – Hybrid End Frame Design
- NEW – PCB Terminal Board
- NEW – Voltage Change Device
- NEW – Definitive Shaft Access (7/16" wrench)
- "1081" Design
- Auto Protector
- Sealed Ball Bearings
- 60 HZ
- Rotation: CCW Pump End
- 303 Stainless Steel Threaded Shaft
- Open Dripproof
- 50°C Ambient

### Premium Pool & Spa Motors – Professional Grade Single Speed

| THP | RPM | Volts | Service Factor | Amps | Stock Number | Frame | Flange |
|---|---|---|---|---|---|---|---|
| **0.95** | 3450 | 115/230 | 1.0 | 12.2/6.1 | **HSQ095** | 48Y | Square |
| **1.25** | 3450 | 115/230 | 1.0 | 14.8/7.4 | **HSQ125** | 48Y | Square |
| **1.65** | 3450 | 115/230 | 1.0 | 18.8/9.4 | **HSQ165** | 48Y | Square |
| **2.20** | 3450 | 230 | 1.0 | 9.7 | **HSQ220** | 48Y | Square |
| **2.60** | 3450 | 230 | 1.0 | 11.4 | **HSQ260** | 48Y | Square |
| **0.80** | 3450 | 115/230 | 1.0 | 10.8/5.4 | **HST080** | 56J | C-Face |
| **1.10** | 3450 | 115/230 | 1.0 | 13.6/6.8 | **HST110** | 56J | C-Face |
| **1.50** | 3450 | 115/230 | 1.0 | 17.2/8.6 | **HST150** | 56J | C-Face |
| **2.25** | 3450 | 115/208-230 | 1.0 | 20.4/10.9-10.2 | **HST225** | 56J | C-Face |
| **2.75** | 3450 | 208-230 | 1.0 | 12.3-11.3 | **HST275** | 56J | C-Face |

### Replacement Guide

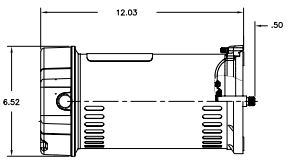
| Centurion PRO | Century | Nidec/U.S. Motors | SN Tech |
|---|---|---|---|
| **HSQ095** | SQ1052<br>USQ1072 | ESQ1052<br>EUSQ1072 | C1304<br>C1244 |
| **HSQ125** | SQ1072<br>USQ1102 | ESQ1072<br>EUSQ1102 | C1305<br>C1245 |
| **HSQ165** | SQ1102<br>USQ1152 | ESQ1102<br>EUSQ1152 | C1306<br>C1246 |
| **HSQ220** | SQ1152<br>USQ1202 | ESQ1152<br>EUSQ1202 | N/A<br>N/A |
| **HSQ260** | SQ1202<br>USQ1252 | ESQ1202<br>EUSQ1252 | C1308<br>C1335 |
| **HST080** | ST1052<br>UST1072 | EST1052<br>EUST1072 | C1098<br>C1321 |
| **HST110** | ST1072<br>UST1102 | EST1072<br>EUST1102 | C1099<br>C1318 |
| **HST150** | ST1102<br>UST1152 | EST1102<br>EUST1152 | C1100<br>C1319 |
| **HST225** | ST1152<br>UST1202 | EST1152<br>EUST1202 | C1101<br>C1320 |
| **HST275** | ST1202<br>UST1252 | EST1202<br>EUST1252 | C1102<br>C1149 |

**Important:**

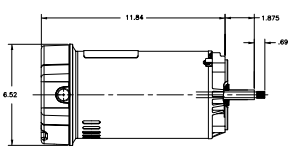
1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

HSQ125




HST150



## EASY TO INSTALL – PROTECTS PUMP – IMPROVES POOL SAFETY

### Features:

- Easy to install
- Auto-Reset
- Auto-Calibration
- Ball Bearing
- Economical
- 60 HZ
- Stainless Steel Shaft
- Nerve Center (lighting sequence)
- 3/4 to 3 HP
- Single-Speed
- Single Phase
- Run/Restart/Rest/Bypass Mode
- Tamper-Resistant Housing
- Compatible with all flow rates

USQG1152A

### Applications:

Century® Guardian® motors comply with requirements for safety vacuum release systems in the Virginia Graeme Baker Pool and Spa Safety Act of 2007. Guardian® motors on this page pass ASME A112.19.17 SVRS standard.
Guardian® motors will not prevent evisceration, hair, object or partial limb entrapment and is designed for suction lift applications.

| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Shaft | Rating | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TWO COMPARTMENT, C-FACE** | | | | | | | | | | | |
| **1** | 3450 | 115/230 | 15.0/7.5 | 1.10 | 1.10 | 56J | **USTG1102A** | Threaded | Up | 11 | |
| **1** | 3450 | 115/230 | 18.6/9.3 | 1.50 | 1.50 | 56J | **STG1102A** | Threaded | Full | 12-1/8 | |
| **1.5** | 3450 | 115/230 | 18.6/9.3 | 1.00 | 1.50 | 56J | **USTG1152A** | Threaded | Up | 12-1/8 | |
| **2** | 3450 | 208-230 | 12.6/11.4 | 1.32 | 2.64 | 56J | **STG1202A** | Threaded | Full | 13-1/16 | |
| **3** | 3450 | 208-230 | 14.5/13.8 | 1.15 | 3.45 | 56J | **STG1302A** | Threaded | Full | 14-3/16 | |
| **CENTURION, C-FACE** | | | | | | | | | | | |
| **1** | 3450 | 230/115 | 7.2/14.4 | 1.40 | 1.4 | 56J | **BG128A** | Threaded | Full | 10 | |
| **1.5** | 3450 | 230/115 | 9.2/18.4 | 1.30 | 1.95 | 56J | **BG129A** | Threaded | Full | 11 | |
| **2** | 3450 | 230 | 10.5 | 1.20 | 2.40 | 56J | **BG130A** | Threaded | Full | 10-1/2 | |
| **3** | 3450 | 230 | 14.1 | 1.15 | 3.45 | 56J | **BG131A** | Threaded | Full | 11-9/16 | |
| **TWO COMPARTMENT, SQUARE FLANGE** | | | | | | | | | | | |
| **3/4** | 3450 | 115/230 | 11.8/5.9 | 1.27 | 0.95 | 48Y | **USQG1072A** | Threaded | Up | 11-1/2 | |
| **1** | 3450 | 115/230 | 14.8/7.4 | 1.25 | 1.25 | 48Y | **USQG1102A** | Threaded | Up | 12-1/8 | |
| **1.5** | 3450 | 115/230 | 19.2/9.6 | 1.10 | 1.65 | 48Y | **USQG1152A** | Threaded | Up | 13-1/8 | |
| **2** | 3450 | 230 | 11.2 | 1.30 | 2.60 | 48Y | **SQG1202A** | Threaded | Full | 13-7/8 | |
| **3** | 3450 | 230 | 15.4 | 1.15 | 3.45 | 56Y | **SQG1302A** | Threaded | Full | 14 | |
| **CENTURION, SQUARE FLANGE** | | | | | | | | | | | |
| **1** | 3450 | 230/115 | 7.1/14.2 | 1.25 | 1.25 | 56Y | **BG853A** | Threaded | Up | 9-7/8 | |
| **1** | 3450 | 230/115 | 8.0/16.0 | 1.65 | 1.65 | 56Y | **BG848A** | Threaded | Full | 10-1/4 | |
| **1.5** | 3450 | 230/115 | 8.0/16.0 | 1.10 | 1.65 | 56Y | **BG854A** | Threaded | Up | 10-1/4 | |
| **2** | 3450 | 230 | 10.0 | 1.10 | 2.20 | 56Y | **BG855A** | Threaded | Up | 10-7/8 | |
| **2** | 3450 | 230 | 11.5 | 1.30 | 2.60 | 56Y | **BG748A** | Threaded | Full | 12-3/4 | |
| **3** | 3450 | 208-230 | 15.0-13.6 | 1.15 | 3.45 | 56Y | **BG2844A** | Threaded | Full | 13-5/8 | |

**Notes:**

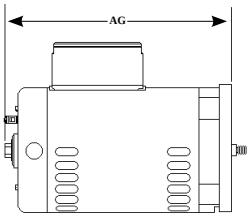
**Guardian® Motors Also:**

Facilitates no main drain pool designs in place of an equalizer line. Guardian® motors shut off the motor/pump when the water level drops below the skimmer.

Reduces pump, motor and seal damage.

Shut off the motor/pump if any of the following conditions occur: Dry, blocked or jammed pump conditions; locked rotor, loss of prime, or abnormal voltage variations.

Detect clogged or blocked filters and shuts down the pump.




**⚠ WARNING** Guardian® SVRS helps prevent body entrapment on drains due to suction only. It does NOT protect against the four other types of entrapment:

**Hair Entanglement:** if long hair is pulled into some drains by the flowing water, it can become knotted or snagged, trapping the swimmer underwater and leading to drowning.

**Mechanical Entrapment:** small items or body parts (e.g., jewelry, swimsuit , hair decorations, fingers, toes, or knuckles) can be caught in some drains or drain covers, trapping the swimmer underwater and leading to drowning.

**Limb Entrapment:** arms or legs can become trapped in uncovered drains, leading to drowning.

**Evisceration/Disembowelment:** if a person sits on some drains, the suction can pull the lower intestine out of the rectum, causing irreversible damage.

# Two Compartment NEMA C-Face Pool Filter Motors • Single Speed

## Features:

- Auto Protector
- Open Dripproof
- Sealed Ball Bearings
- "1081" Design
- 304 Brg. Shaft End
- Capacitor Start and Capacitor Start-Capacitor Run
- NEMA "56C" Face Mount
- Rotation: CCW Pump End
- Sealed Switch Design
- 50°C Ambient
- 60 Hz
- 303 Stainless Shaft (56J & 56C)

SK1072

CT1072

## HIGH SERVICE FACTOR (FULL RATED) - STANDARD EFFICIENCY AND "CONSERVATIONIST™" HIGH EFFICIENCY DESIGNS

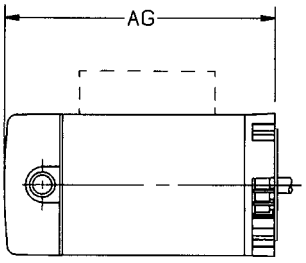
| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Shaft | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 115/230 | 10.6/5.3 | 1.6 | 0.8 | 56C | **SK1052** | Key | 11 | |
| **1/2** | 3450 | 115/230 | 8.0/4.0 | 1.6 | 0.8 | 56C | **CK1052★** | Key | 11 | 20,**$** |
| **1/2** | 3450 | 115/230 | 11.0/5.5 | 1.6 | 0.8 | 56J | **ST1052** | Thd. | 10-5/8 | |
| **1/2** | 3450 | 115/230 | 8.0/4.0 | 1.6 | 0.8 | 56J | **CT1052★** | Thd. | 11 | 20,**$** |
| **3/4** | 3450 | 115/230 | 14.6/7.3 | 1.5 | 1.13 | 56C | **SK1072** | Key | 11-9/16 | |
| **3/4** | 3450 | 115/230 | 11.0/5.5 | 1.5 | 1.13 | 56C | **CK1072** | Key | 11-11/16 | 20,**$** |
| **3/4** | 3450 | 115/230 | 15.0/7.5 | 1.5 | 1.13 | 56J | **ST1072** | Thd. | 11 | |
| **3/4** | 3450 | 115/230 | 11.0/5.5 | 1.5 | 1.13 | 56J | **CT1072** | Thd. | 11-11/16 | 20,**$** |
| **1** | 3450 | 115/230 | 17.0/8.5 | 1.5 | 1.5 | 56C | **SK1102** | Key | 12-1/8 | |
| **1** | 3450 | 115/230 | 13.6/6.8 | 1.4 | 1.4 | 56C | **CK1102** | Key | 12-1/8 | 20,**$** |
| **1** | 3450 | 115/230 | 18.6/9.3 | 1.5 | 1.5 | 56J | **ST1102** | Thd. | 12-1/8 | |
| **1** | 3450 | 115/230 | 13.6/6.8 | 1.4 | 1.4 | 56J | **CT1102** | Thd. | 12-1/8 | 20,**$** |
| **1.5** | 3450 | 115/230 | 19.4/9.7 | 1.3 | 1.95 | 56C | **SK1152** | Key | 12-5/8 | 20,**$** |
| **1.5** | 3450 | 115/208-230 | 19.6/10.4-9.8 | 1.5 | 2.25 | 56J | **ST1152** | Thd. | 12-5/8 | 20,**$** |
| **2** | 3450 | 230 | 11.2 | 1.3 | 2.6 | 56C | **SK1202** | Key | 13-1/16 | 20,**$** |
| **2** | 3450 | 208-230 | 12.6-11.4 | 1.3 | 2.6 | 56J | **ST1202** | Thd | 13-1/16 | 20,**$** |
| **3** | 3450 | 230 | 14.4 | 1.15 | 3.45 | 56C | **SK1302V1** | Key | 13-5/8 | 20,**$** |
| **3** | 3450 | 208-230 | 14.5-13.8 | 1.15 | 3.45 | 56J | **ST1302V1** | Thd. | 14-3/16 | 20,**$** |

**Notes:**

**$** Energy efficient

20. **$** Energy Efficient capacitor start, capacitor run "Conservationist™" motor

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.go




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# Two Compartment NEMA C-Face Pool Filter Motors • Single Speed

### Features:

- Auto Protector
- Sealed Switch Design
- Sealed Ball Bearings
- NEMA "56C" Face Mount
- Open Dripproof
- "1081" Design
- 50°C Ambient
- 60 Hz
- Rotation: CCW Pump End
- 304 Brg. Shaft End)
- 303 Stainless Shaft (56J & 56C
- Capacitor Start and Capacitor Start-Capacitor Run

UST1072

### LOW SERVICE FACTOR (UP-RATED) - STANDARD EFFICIENCY AND "CONSERVATIONIST™" HIGH EFFICIENCY DESIGNS

| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Approx. Shaft | "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **3/4** | 3450 | 115/230 | 11.0/5.5 | 1.0 | .75 | 56J | **UST1072** | Thd. | 10-5/8 | |
| **3/4** | 3450 | 115/230 | 8.0/4.0 | 1.0 | .75 | 56J | **UCT1072** ★ | Thd. | 11 | 20,**$** |
| **1** | 3450 | 115/230 | 15.0/7.5 | 1.1 | 1.1 | 56J | **UST1102** | Thd. | 11 | |
| **1** | 3450 | 115/230 | 11.0/5.5 | 1.0 | 1.0 | 56J | **UCT1102** | Thd. | 11-11/16 | 20,**$** |
| **1.5** | 3450 | 115/230 | 18.6/9.3 | 1.0 | 1.5 | 56J | **UST1152** | Thd. | 12-1/8 | |
| **1.5** | 3450 | 115/230 | 14.6/7.3 | 1.0 | 1.5 | 56J | **UCT1152** | Thd. | 12-1/8 | 20,**$** |
| **2** | 3450 | 115/208-230 | 19.6/10.4-9.8 | 1.1 | 2.2 | 56J | **UST1202** | Thd. | 12-5/8 | 20,**$** |
| **2.5** | 3450 | 208-230 | 12.6/11.4 | 1.1 | 2.75 | 56J | **UST1252** | Thd. | 13-1/16 | 20,**$** |

# Two Compartment NEMA C-Face Pool Filter Motors • Two-Speed

### Features:

- Auto Protector
- Sealed Switch Design
- Rotation: CCW Pump End
- All Copper Windings
- Open Dripproof
- "1081" Design
- 50°C Ambient
- 60 Hz
- 303 Stainless Steel Threaded Shaft
- Sealed Ball Bearings (304 Shaft End)
- Capacitor Start/Capacitor Run

STS1072RV1

Century® NEMA C flange swimming pool filter pump motors are carefully engineered to meet the rugged demands of pool duty. Two sealed ball bearings (with large 304 bearing on shaft end) offer ample capacity for extended life. Bearings are selected for quietness and are lubricated for life with greases specifically chosen for moisture and heat resistant qualities. Aluminum end frames are accurately machined for maximum concentricity and minimum runout.

Two-speed motors are shipped less hi/lo switch for remote operation. End cover and switch assembly kit number 1011431-001 available and sold separately.

| HP | RPM | Volts | Max. Amps Hi - Lo | Service Factor | THP | Frame | Stock Number | Shaft | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **1 / .13** | 3450/1725 | 230 | 7.0/2.3 | 1.5 | 1.5 | 56J | **STS1102RV1** ★ | Thrd | 12-1/2 | 90**$** |
| **1.5 / .25** | 3450/1725 | 230 | 9.0/3.3 | 1.3 | 1.95 | 56J | **STS1152R** ★ | Thrd | 13-1/16 | 20,**$** |

**Notes:**

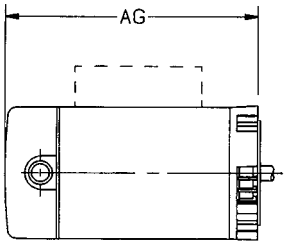
1. Item to be discontinued when stock is depleted

**$** Energy efficient

20. **$** Energy Efficient capacitor start, capacitor run "Conservationist" motor

90. 50 degree C ambient

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

## Permanent Split Capacitor – Switchless – Single Phase – Dripproof
## No Base – 3450 RPM 1/2 thru 4 HP

B126

### Features:

- Ball Bearings
- Class B Insulation
- 50°C Ambient
- 304 Bearing Shaft End
- 60 Hz
- Rotation: CCW Pump End

### Centurion® "1081" · Full Rate · High Service Factor · Aluminum NEMA "C" Brackets

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Overload Protector | Shaft | "C" Dimension | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 230/115 | 4.4/8.8 | 1.60 | 0.8 | 56C | **B120★** | Auto | Keyed | 11.44 | |
| **1/2** | 3450 | 230/115 | 4.4/8.8 | 1.60 | 0.8 | 56J | **B126★** | Auto | Threaded | 11.94 | 12 |
| **3/4** | 3450 | 230/115 | 6.0/12.0 | 1.50 | 1.13 | 56C | **B121** | Auto | Keyed | 11.44 | |
| **3/4** | 3450 | 230/115 | 6.0/12.0 | 1.50 | 1.13 | 56J | **B127** | Auto | Threaded | 12.01 | 12 |
| **1** | 3450 | 230/115 | 7.2/14.4 | 1.40 | 1.4 | 56C | **B122** | Auto | Keyed | 11.89 | |
| **1** | 3450 | 230/115 | 7.2/14.4 | 1.40 | 1.4 | 56J | **B128** | Auto | Threaded | 12.14 | 12 |
| **1.5** | 3450 | 230/115 | 9.2/18.4 | 1.30 | 1.95 | 56C | **B123** | Auto | Keyed | 13.19 | |
| **1.5** | 3450 | 230/115 | 9.2/18.4 | 1.30 | 1.95 | 56J | **B129** | Auto | Threaded | 13.50 | 12 |
| **2** | 3450 | 230/115 | 10.8/21.6 | 1.20 | 2.4 | 56C | **B835** | Auto | Keyed | 13.94 | |
| **2** | 3450 | 230 | 10.5 | 1.20 | 2.4 | 56C | **B124** | Auto | Keyed | 12.55 | |
| **2** | 3450 | 230/115 | 10.8/21.6 | 1.20 | 2.4 | 56J | **B836** | Auto | Threaded | 13.90 | 12 |
| **2** | 3450 | 230 | 10.5 | 1.20 | 2.4 | 56J | **B130** | Auto | Threaded | 13.10 | 12 |
| **3** | 3450 | 230 | 14.1 | 1.15 | 3.45 | 56C | **B125** | Auto | Keyed | 13.65 | |
| **3** | 3450 | 230 | 14.1 | 1.15 | 3.45 | 56J | **B131** | Auto | Threaded | 14.15 | 12 |
| **4** | 3450 | 208-230 | 21.0-19.4 | 1.25 | 5.0 | 56Y | **B116** | Manual | Special | 16.78 | 31,34,63,236 |

### Centurion® SE "1081" · Up Rate · Low Service Factor

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Overload Protector | Shaft | "C" Dimension | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/4** | 3450 | 230/115 | 4.4/8.8 | 1.00 | .75 | 56J | **B227SE★** | Auto | Threaded | 12.56 | 12 |
| **1** | 3450 | 230/115 | 6.0/12.0 | 1.00 | 1.0 | 56J | **B228SE** | Auto | Threaded | 12.81 | 12 |
| **1.5** | 3450 | 230/115 | 7.2/14.4 | 1.00 | 1.5 | 56J | **B229SE** | Auto | Threaded | 13.91 | 12 |
| **2** | 3450 | 230/115 | 9.2/18.4 | 1.00 | 2.0 | 56J | **B230SE** | Auto | Threaded | 14.31 | 12 |
| **2.5** | 3450 | 230 | 10.5 | 1.00 | 2.5 | 56J | **B231SE** | Auto | Threaded | 13.81 | 12 |

**Notes:**

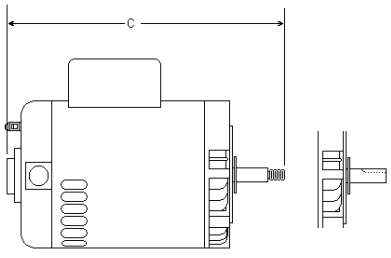
12. 303 Stainless steel shaft
31. 40 degree C ambient
34. Rigid base
63. Speck Pump replacement motor
236. CCW Rotation facing opposite shaft end

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.






Phone: 866.887.5216

## Permanent Split Capacitor – Switchless – Single Phase – Dripproof
## No Base – 3600 3600/1800 RPM 1/2 thru 3 HP

B638

### Features:

- Ball Bearings
- Class B Insulation
- 304 Bearing Shaft End
- 60 Hz
- Rotation: CCW Pump End
- Energy Efficient **$**

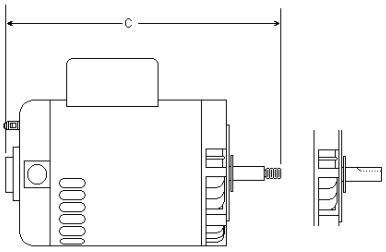
### E-Plus® Energy Efficient "1081" · Centurion® Motor · Full Rate · Aluminum NEMA "C" Brackets · 50°C Ambient

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Overload Protector | Shaft | "C" Dimension | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 208-230/115 | 4.0-3.7/7.4 | 1.60 | 0.80 | 56J | **B657** ★ | Auto | Threaded | 11.95 | 12,**$** |
| **3/4** | 3450 | 208-230/115 | 5.4-5.0/10.0 | 1.50 | 1.13 | 56J | **B638** | Auto | Threaded | 12.69 | 12,**$** |
| **1** | 3450 | 208-230/115 | 6.4-5.9/11.8 | 1.40 | 1.40 | 56C | **B653** | Auto | Keyed | 12.55 | **$** |
| **1** | 3450 | 208-230/115 | 6.4-5.9/11.8 | 1.40 | 1.40 | 56J | **B654** | Auto | Threaded | 13.19 | 12,**$** |
| **1.5** | 3450 | 208-230/115 | 8.7-7.8/15.6 | 1.30 | 1.95 | 56C | **B795** | Auto | Keyed | 13.19 | **$** |
| **1.5** | 3450 | 208-230/115 | 8.7-7.8/15.6 | 1.30 | 1.95 | 56J | **B796** | Auto | Threaded | 13.55 | 12,**$** |
| **2** | 3450 | 208-230 | 10.4-9.6 | 1.20 | 2.40 | 56C | **B808** | Auto | Keyed | 13.65 | **$** |
| **2** | 3450 | 208-230 | 10.4-9.6 | 1.20 | 2.40 | 56J | **B809** | Auto | Threaded | 14.15 | 12,**$** |
| **3** | 3450 | 208-230 | 15.0-13.6 | 1.15 | 3.45 | 56C | **B817** | Auto | Keyed | 13.65 | **$** |
| **3** | 3450 | 208-230 | 15.0-13.6 | 1.15 | 3.45 | 56J | **B818** | Auto | Threaded | 14.15 | 12,**$** |

**Notes:**

**$** Energy efficient
12. 303 Stainless steel shaft

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov




56J THREADED 56C KEYED

**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

## Permanent Split Capacitor – Switchless – Single Phase – Dripproof
## No Base – 3600 3600/1800 RPM 1/2 thru 3 HP

B971

### Features:

- Ball Bearings
- Class B Insulation
- 304 Bearing Shaft End
- 60 Hz
- Rotation: CCW Pump End
- Energy Efficient **$**

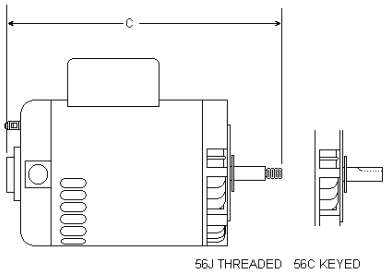
### Two Speed "1081" · Full Rate · High Service Factor · 40°C Ambient

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Overload Protector | Shaft | "C" Dimension | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **High Speed Switchless, Low Speed Microswitch · Aluminum "C" Bracket · Hi-Lo Toggle Switch available (P/N 17590450) Use toggle switch #2512558-001 for B2973, B2975, B2977, and B2979 only.** | | | | | | | | | | | |
| **0.5 / .06** | 3450/1725 | 115 | 8.8/3.55 | 1.60 | 0.8 | 56C | **B970** ★ | Auto | Keyed | 11.80 | **$** |
| **0.5 / .06** | 3450/1725 | 115 | 8.8/3.55 | 1.60 | 0.8 | 56J | **B971** ★ | Auto | Threaded | 12.30 | 12,**$** |
| **.75 / .10** | 3450/1725 | 115 | 11.2/5.0 | 1.50 | 1.13 | 56C | **B972** ★ | Auto | Keyed | 11.80 | **$** |
| **.75 / .10** | 3450/1725 | 115 | 12.2/2.2 | 1.50 | 1.13 | 56J | **B2973** ★ | Auto | Threaded | 12.30 | 12,**$** |
| **1.0 /.12** | 3450/1725 | 230 | 6.3/2.3 | 1.40 | 1.40 | 56C | **B974** ★ | Auto | Keyed | 12.05 | **$** |
| **1.0 /.12** | 3450/1725 | 230 | 6.6/1.5 | 1.25 | 1.25 | 56J | **B2975** ★ | Auto | Threaded | 13.05 | 12,**$** |
| **1.5 / .20** | 3450/1725 | 230 | 8.9/3.1 | 1.30 | 1.95 | 56C | **B976** ★ | Auto | Keyed | 12.54 | **$** |
| **1.5 / .20** | 3450/1725 | 230 | 8.9/3.1 | 1.30 | 1.95 | 56J | **B2977** ★ | Auto | Threaded | 13.05 | 12,**$** |
| **1.5 / .20** | 3450/1725 | 115 | 14.6/4.4 | 1.10 | 1.65 | 56J | **B969** ★ | Auto | Threaded | 13.54 | 12,63,90,**$** |
| **2.0 / .25** | 3450/1725 | 230 | 10.6/3.2 | 1.20 | 2.4 | 56C | **B978** ★ | Auto | Keyed | 13.04 | **$** |
| **2.0 / .25** | 3450/1725 | 230 | 11.0/1.6 | 1.20 | 2.4 | 56J | **B2979** ★ | Auto | Threaded | 13.55 | 12,**$** |
| **3.0 / .38** | 3450/1725 | 230 | 13.8/4.0 | 1.15 | 3.45 | 56J | **B966** ★ | Auto | Threaded | 14.29 | 12,**$** |

**Notes:**

**$** Energy efficient
1. Item to be discontinued when stock is depleted
12. 303 Stainless steel shaft
63. Speck Pump replacement motor
90. 50 degree C ambient

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



Phone: 866.887.5216

# Two Compartment Square Flange Pool Filter Motors
# Single Speed & Energy Efficient

Used on many Sta-Rite, Red Jacket, Pac Fab and American Products.

### Features:

- Auto Protector
- Class B Insulation
- Rotation: CCW Pump End
- Sealed Ball Bearings
- 60 Hz
- Capacitor Start
- Open Dripproof
- 303 Stainless Steel Threaded Shaft
- 50°C Ambient
- UL1081

SQ1032

SQ1152

## HIGH SERVICE FACTOR (FULL RATED)

| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **1/3** | 3450 | 115/230 | 9.9/5.0 | 1.95 | 0.64 | 48Y | **SQ1032** | 11-1/8 | |
| **1/2** | 3450 | 115/230 | 13.4/6.7 | 1.9 | 0.95 | 48Y | **SQ1052** | 11-1/2 | |
| **1/2** | 3450 | 115/230 | 9.6/4.8 | 1.9 | 0.95 | 48Y | **QC1052** ★ | 10-7/8 | 20,**$** |
| **3/4** | 3450 | 115/230 | 15.3/7.6 | 1.65 | 1.24 | 48Y | **SQ1072** | 12-1/8 | |
| **3/4** | 3450 | 115/230 | 12.6/6.3 | 1.65 | 1.24 | 48Y | **QC1072** | 11-1/4 | 20,**$** |
| **1** | 3450 | 115/230 | 19.2/9.6 | 1.65 | 1.65 | 48Y | **SQ1102** | 13-1/8 | |
| **1** | 3450 | 115/208-230 | 16.0/8.0 | 1.65 | 1.65 | 48Y | **QC1102** | 11-7/8 | 20,**$** |
| **1.5** | 3450 | 230 | 10.4 | 1.47 | 2.21 | 48Y | **SQ1152** | 13-1/4 | 20,**$** |
| **2** | 3450 | 230 | 11.2 | 1.3 | 2.6 | 48Y | **SQ1202** | 13-7/8 | 20,**$** |
| **3** | 3450 | 230 | 15.4 | 1.15 | 3.45 | 56Y | **SQ1302V1** | 14 | 20,**$** |

## LOW SERVICE FACTOR (UP-RATED)

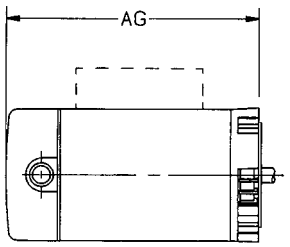
| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 115/230 | 9.9/5.0 | 1.3 | 0.65 | 48Y | **USQ1052** | 11-1/8 | |
| **3/4** | 3450 | 115/230 | 13.4/6.7 | 1.27 | 0.95 | 48Y | **USQ1072** | 11-1/2 | |
| **3/4** | 3450 | 115/230 | 9.6/4.8 | 1.27 | 0.95 | 48Y | **UQC1072** ★ | 10-7/8 | 20,**$** |
| **1** | 3450 | 115/230 | 15.3/7.6 | 1.25 | 1.25 | 48Y | **USQ1102** | 12-1/8 | |
| **1** | 3450 | 115/230 | 12.6/6.3 | 1.25 | 1.25 | 48Y | **UQC1102** | 11-1/4 | 20,**$** |
| **1.5** | 3450 | 115/230 | 19.2/9.6 | 1.1 | 1.65 | 48Y | **USQ1152** | 13-1/8 | |
| **1.5** | 3450 | 115/230 | 16.0/8.0 | 1.1 | 1.65 | 48Y | **UQC1152** | 13-1/4 | 20,**$** |
| **2** | 3450 | 230 | 10.4 | 1.1 | 2.1 | 48Y | **USQ1202** | 13-1/4 | 20,**$** |
| **2.5** | 3450 | 230 | 11.2 | 1.0 | 2.5 | 48Y | **USQ1252** | 13-7/8 | 20,**$** |

**Notes:**

**$** Energy efficient

20. **$** Energy Efficient capacitor start, capacitor run "Conservationist" motor

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# Two Compartment Square Flange Pool Motors • Two Speed

Used on many Sta-Rite, Red Jacket, and Sears Jet and Pool Pumps.

### Features:

- All Copper Windings
- Open Dripproof
- Class B Insulation
- UL1081
- Auto Protector - Single Phase
- Rotation: CCW Pump End
- 50°C Ambient
- 60 Hz
- 303 Stainless Steel Threaded Shaft
- Energy Efficient Capacitor Start Low Speed, PSC High Speed

**SQS1152R**

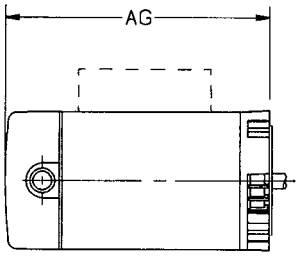
Two-speed motors are shipped less hi/lo switch for remote operation.
End cover and switch assembly kit number 615332 available and sold separately.

## HIGH SERVICE FACTOR (FULL RATED)

| HP | RPM | Volts | Amps Hi - Lo | Service Factor | THP | Frame | Stock Number | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **.75 / .13** | 3450/1725 | 115 | 13.0/4.2 | 1.65 | 1.24 | 48Y | **SQL1072R** ★ | 12-5/8 | **$** |
| **.75 / .13** | 3450/1725 | 230 | 6.1/2.1 | 1.65 | 1.20 | 48Y | **SQS1072R** ★ | 12-5/8 | **$** |
| **1.0 / .17** | 3450/1725 | 230 | 7.7/2.8 | 1.65 | 1.65 | 48Y | **SQS1102R** ★ | 13-13/16 | **$** |
| **1.5 / .25** | 3450/1725 | 230 | 10.0/3.0 | 1.47 | 2.21 | 48Y | **SQS1152R** ★ | 13-9/16 | **$** |
| **2.0 / .33** | 3450/1725 | 230 | 11.3/3.3 | 1.3 | 2.6 | 48Y | **SQS1202R** ★ | 13-13/16 | **$** |

**Notes:**
**$** Energy efficient

★ Meets California Energy Commission Appliance Regulations 2008
(Publication Number CEC-400-2006-002-REV1)
www.energy.ca.gov

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**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



Phone: 866.887.5216

## Permanent Split Capacitor – Switchless – Single Phase – Dripproof
## No Base – 3600 and 3600/1800 RPM 1/2 thru 3 HP

### Features:

- Ball Bearings
- 50°C Ambient
- Rotation: CCW Pump End
- $ Energy Efficient
- 60 Hz
- Class B Insulation
- Stainless Steel Shafts

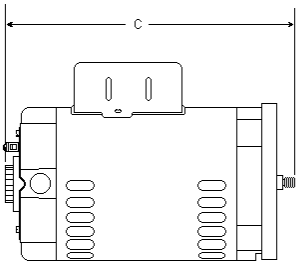
B2661

B845

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Centurion® "1081" • Full Rate • High Service Factor** | | | | | | | | | | | |
| **1/2** | 3450 | 230/115 | 5.4/10.8 | 1.95 | 0.98 | 56Y | **B2846** ★ | Threaded | Auto | 12.4 | |
| **3/4** | 3450 | 230/115 | 7.1/14.2 | 1.65 | 1.24 | 56Y | **B2847** | Threaded | Auto | 12.4 | |
| **1** | 3450 | 230/115 | 8.0/16.0 | 1.65 | 1.65 | 56Y | **B2848** | Threaded | Auto | 12.8 | |
| **1.5** | 3450 | 230/115 | 10.5/21.0 | 1.50 | 2.25 | 56Y | **B2858** | Threaded | Auto | 14.4 | |
| **1.5** | 3450 | 230 | 10.0 | 1.50 | 2.25 | 56Y | **B849** | Threaded | Auto | 13.4 | |
| **2** | 3450 | 230 | 11.5 | 1.30 | 2.6 | 56Y | **B2748** | Threaded | Auto | 13.4 | |
| **Centurion® "1081" • Up-Rate • Low Service Factor** | | | | | | | | | | | |
| **3/4** | 3450 | 230/115 | 5.4/10.8 | 1.25 | 0.94 | 56Y | **B2852** ★ | Threaded | Auto | 12.4 | |
| **1** | 3450 | 230/115 | 7.1/14.2 | 1.25 | 1.25 | 56Y | **B2853** | Threaded | Auto | 12.4 | |
| **1.5** | 3450 | 230/115 | 8.0/16.0 | 1.10 | 1.65 | 56Y | **B2854** | Threaded | Auto | 12.8 | |
| **2** | 3450 | 230/115 | 11.2/22.4 | 1.10 | 2.2 | 56Y | **B2859** | Threaded | Auto | 14.4 | |
| **2** | 3450 | 230 | 10.0 | 1.10 | 2.2 | 56Y | **B855** | Threaded | Auto | 13.4 | |
| **2.5** | 3450 | 230 | 11.5 | 1.04 | 2.6 | 56Y | **B2840** | Threaded | Auto | 13.4 | |
| **E-Plus® Energy Efficient "1081" • New Centurion • Full Rate** | | | | | | | | | | | |
| **1/2** | 3450 | 208-230/115 | 4.5-4.4/8.8 | 1.90 | 0.95 | 56Y | **B845** ★ | Threaded | Auto | 12.4 | |
| **3/4** | 3450 | 208-230/115 | 6.0-5.6/11.2 | 1.67 | 1.25 | 56Y | **B2661** | Threaded | Auto | 13.1 | |
| **1** | 3450 | 208-230/115 | 7.8-7.4/14.8 | 1.65 | 1.65 | 56Y | **B2841V1** | Threaded | Auto | 13.4 | |
| **1.5** | 3450 | 208-230 | 9.6-8.8 | 1.47 | 2.21 | 56Y | **B2842** | Threaded | Auto | 13.9 | |
| **2** | 3450 | 208-230 | 11.0-10.2 | 1.30 | 2.6 | 56Y | **B2843** | Threaded | Auto | 14.4 | |
| **3** | 3450 | 208-230 | 15.0-13.6 | 1.15 | 3.45 | 56Y | **B2844** | Threaded | Auto | 14.4 | |

**Notes:**
1. Item to be discontinued when stock is depleted

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

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**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# New from Century® – High Efficiency two-speed motors.

New Centurion High Efficiency two-speed motors have PSC (Permanent Split Capacitor) high speeds and capacitor start/capacitor run low speeds.

## New Centurion High Efficiency Two-Speed Pool and Spa Motors

### Features:

- Ball Bearing
- Class B Insulation
- 50˚C Ambient
- **$** High Efficient High and Low Speed
- Open Dripproof
- Permanent Split Capacitor
- Rotation: CCW Pump End
- Single Phase
- 303 Stainless Steel Shafts

B2980

Toggle Switch Kit #2512558-001 sold separately. Use alternate Toggle Switch Kit # 17590450 on B985 only.

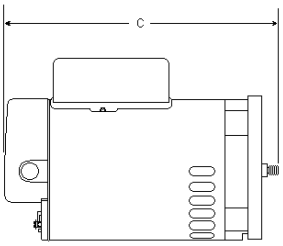
### TWO-SPEED - "1081" - PSC ENERGY EFFICIENT HIGH SPEED - CAP. START/CAP. RUN LOW SPEED - SQUARE FLANGE - FULL RATE

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **.75 / .10** | 3450/1725 | 230 | 6.0/1.0 | 1.67 | 1.25 | 56Y | **B2980** ★ | Threaded | Auto | 13.1 | **$** |
| **.75 / .10** | 3450/1725 | 115 | 12.4/2.2 | 1.67 | 1.25 | 56Y | **B2981** ★ | Threaded | Auto | 13.1 | **$** |
| **1.0 / .13** | 3450/1725 | 230 | 7.4/1.4 | 1.65 | 1.65 | 56Y | **B2982** ★ | Threaded | Auto | 13.4 | **$** |
| **1.5 / .19** | 3450/1725 | 230 | 10.0/1.6 | 1.47 | 2.21 | 56Y | **B2983** ★ | Threaded | Auto | 13.9 | **$** |
| **2.0 / .25** | 3450/1725 | 230 | 11.0/1.8 | 1.30 | 2.60 | 56Y | **B2984** ★ | Threaded | Auto | 14.4 | **$** |
| **2.0 / .33** | 3450/1725 | 230 | 10.0/3.5 | 1.10 | 2.20 | 56Y | **B985** ★ | Threaded | Auto | 14.4 | 107,**$** |
| **3.0 / .38** | 3450/1725 | 230 | 15.0/2.6 | 1.15 | 3.45 | 56Y | **B2987** ★ | Threaded | Auto | 14.38 | **$** |

**Notes:**

**$** Energy efficient
107. Uprated - low service factor

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

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**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



Phone: 866.887.5216

## Jetted Tub/Spa/Above Ground Swimming Pool Pump Motors – Split Phase, Capacitor Start & PSC Single-phase – Dripproof – Ball Bearing – Rigid Base & No Base – 3450 and 3450/1725 RPM – 1/2 thru 4 HP SP

### Features:

- 12 & 3 O'clock Conduit Entries
- Rotation: CCW Pump End
- 3-1/2" Shaft Height
- 40˚C Ambient
- Through Bolt Mount
- Four Thru Bolts on a 5.146 Bolt Circle
- Class B Insulation
- 48/56 Base Mounting

BN35V1

**Applications:** Spa, above ground swimming pool and jetted tub pumps.

Optional Flex-48 Accessories: Airswitch (#17800901), Single-speed Toggle Switch Assy. - On/Off (#18374501), Day/Night Controller (#18602400), Two-speed Toggle Switch Assy. - Lo/Off/Hi (#18313301)

**Century Flex-48 W/Stainless Steel Shaft & Ball Bearings • "1081" • "1795" • "1563" • Rigid Base**

| HP | RPM | Volts | Hz | Full Load Amps | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 3450 | 115 | 60 | 7.0 | 1.0 | 0.5 | 48Y | **BN23V1** | Threaded | Auto | 10.84 | |
| 3/4 | 3450 | 115 | 60 | 9.4 | 1.0 | 0.75 | 48Y | **BN24V1** | Threaded | Auto | 11.21 | 90 |
| 1 | 3450 | 115 | 60 | 11.8 | 1.0 | 1.0 | 48Y | **BN25V1** | Threaded | Auto | 11.46 | |
| 1.5 | 3450 | 230/115 | 60 | 8.0/16.0 | 1.0 | 1.5 | 48Y | **BN35V1** | Threaded | Auto | 12.08 | 45 |
| 2 | 3450 | 230/115 | 60 | 10.0/20.0 | 1.0 | 2.0 | 48Y | **BN40SS** | Threaded | Auto | 13.33 | 45 |
| **Century Flex 48 LASAR® Line (Low Amp Start and Run) • Two-speed • "1081" • "1563" • Rigid Base** | | | | | | | | | | | | |
| .75 / .10 | 3450/1725 | 115 | 60 | 8.8/2.6 | 1.0 | 0.75 | 48Y | **BN36** | Threaded | Auto | 12.08 | |
| 1.0 / .12 | 3450/1725 | 115 | 60 | 10.8/2.8 | 1.0 | 1.0 | 48Y | **BN37V1**** | Threaded | Auto | 12.71 | 68,145,**$** |
| 1.5 / .25 | 3450/1725 | 115 | 60 | 13.5/4.7 | 1.0 | 1.5 | 48Y | **BN50V1**** | Threaded | Auto | 13.21 | 68,145,**$** |
| 1.5 / .18 | 3450/1725 | 230 | 60 | 6.5/2.5 | 1.0 | 1.5 | 48Y | **BN34V1**** | Threaded | Auto | 13.21 | 68,145,**$** |
| 2.0 / .25 | 3450/1725 | 230 | 60 | 10.5/2.6 | 1.0 | 2.0 | 48Y | **BN51** | Threaded | Auto | 13.33 | 45 |
| **Century Flex 48 LASAR-XL • Extra Low Running Amps • Two-speed • Rigid Base** | | | | | | | | | | | | |
| 2.0 / .25 | 3450/1725 | 230 | 60 | 8.5/2.8 | 1.0 | 2.0 | 48Y | **BN61** ★ | Threaded | Auto | 13.33 | 68,145,**$** |
| 3.0 / .38 | 3450/1725 | 230 | 60 | 12.0/3.5 | 1.0 | 3.0 | 48Y | **BN62** ★ | Threaded | Auto | 14.33 | 68,90,145,**$** |
| 4.0 / .42 SPL | 3450/1725 | 208-230 | 60 | 12.0/3.5 | 1.0 | 4.0 | 48Y | **BN63** ★ | Threaded | Auto | 14.33 | 68,90,145,**$** |

**Notes:**

**$** Energy efficient
45. Capacitor start
68. PSC Motor
90. 50˚C Ambient
145. Run capacitor mounted on motor shell

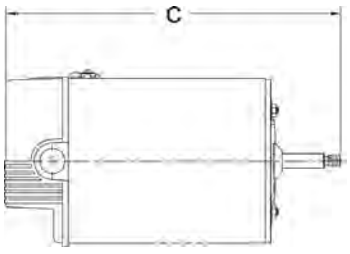
★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

****BN37V1, BN50V1, BN34V1 are: LOW SPEED = cap start, induction run and HI SPEED = PSC**

**Important:**

The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



# Century® 56-Frame Replacement Spa Motors

## Dripproof – 60 HZ – Single Phase – Rigid Base – 6-1/2" Diameter – 3-1/2" Shaft Height

### Features:

- PSC on High Speed
- E-Plus New Centurion Design
- Cap Start/Cap Run on Low Speed
- 50˚C Ambient
- 3/8-16 UNC-2A Threads Includes Slinger
- Four Thru Bolts on a 5.812 Bolt Circle

B236

| Status | HP-SPL* | RPM | Volts | Amps (A)** | Frame | Stock Number | Insul. Class | "C" Dim | Replaces Waterway # | Replaces OEM # | Replaces Stock # | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NEW!** | 1.0 / .13 SPL | 3450/1725 | 230 | 6.0/1.2 (A) | 56Y | **B2232★** | F | 11.99 | 3720621 | 187692 | B232 | 108 |
| **NEW!** | 2.0 / .25 SPL | 3450/1725 | 230 | 7.4/1.4 (A) | 56Y | **B2233★** | F | 12.24 | 3721021 | 187693 | B233 | 108 |
| **NEW!** | 3.0 / .38 SPL | 3450/1725 | 230 | 10.0/1.8 (A) | 56Y | **B2234★** | F | 12.74 | 3721421 | 187694 | B234 | 108 |
| **NEW!** | 4.0 / .50 SPL | 3450/1725 | 230 | 12.0/3.0 | 56Y | **B2235★** | F | 13.49 | 3721621 | 187563 | B235 | 108 |
| | 5.0 / .63 SPL | 3450/1725 | 230 | 16.4/4.8 | 56Y | **B236★** | F | 13.37 | 3722021 | 187098 | – | 108 |
| | 4.0 SPL | 3450 | 230 | 12.0 | 56Y | **B237** | B | 12.62 | 3711821 | 187624 | – | – |
| | 5.0 SPL | 3450 | 230 | 16.4 | 56Y | **B238** | B | 13.37 | 3712021 | 187970 | – | – |

**Notes:**

*HP-SPL means Horsepower – Special The reference chart provided below lists the horsepower and horsepower Amps at 1.0 service factor in relation to the HP-SPL ratings.

**(A) Max Load Amp Rating – As a guideline, at 230V ± 10% voltage, do not load motor above this Amp rating. Amp draw differences between the premium efficiency E-Plus New Centurion design (e.g. B2233) and the slightly less efficient discontinued Centurion design (e.g. B233) is attributable in part to the addition of a run capacitor on low speed. Use of Amp data to determine the correct replacement is not recommended. Instead, refer to the chart for the correct stock number to replace either an original Waterway pump motor or the now discontinued Centurion stock motor.

108. Two speed motor

★ Meets California Energy Commission Appliance Regulations 2008 Publication Number CEC-400-2006-002-REV1 www.energy.ca.gov

| STOCK No. | B2232 | B2233 | B2234 | B2235 | B236 | B237 | B238 |
|---|---|---|---|---|---|---|---|
| **HP-SPL** | 1.0 / .13SPL | 2.0 / .25SPL | 3.0 / .38SPL | 4.0 / .50SPL | 5.0 / .63SPL | 4.0SPL | 5.0SPL |
| **HP (at 1.0 S.F.)** | 1.0 / .12 | 1.5 / .19 | 2.0 / .25 | 3.0 / .38 | 4.0 / .50 | 3.0 | 4.0 |
| **HP Amps (at 1.0 S.F.)** | 4.8 / .8 | 6.4 / 1.2 | 8.8 / 1.6 | 12.0 / 3.0 | 16.4 / 4.8 | 12.0 | 16.4 |

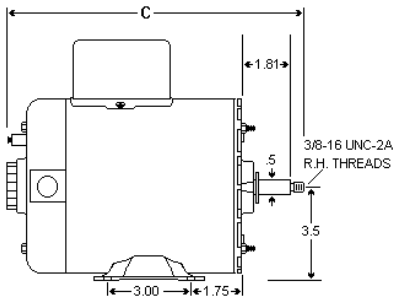
Discontinued Centurion Stock Number Reference

| Disc. Stock Number | HP-SPL* | RPM | Volts | Amps (A)** | Replaces Waterway# |
|---|---|---|---|---|---|
| B232 | 1.0 / .18 SPL | 3450/1725 | 230 | 6.4/2.6 (A) | 3720621 |
| B233 | 2.0 / .25 SPL | 3450/1725 | 230 | 8.0/3.0 (A) | 3721021 |
| B234 | 3.0 / .30 SPL | 3450/1725 | 230 | 10.0/3.5 (A) | 3721421 |
| B235 | 4.0 / .50 SPL | 3450/1725 | 230 | 12.0/4.4 | 3721621 |

**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.






Phone: 866.887.5216

## Features:

- Open Construction
- Threaded Shaft
- 1.0 Service Factor
- Rotation: CCW Pump End
- Rigid Base
- Through Bolt Mount
- **$** Energy Efficient
- 2-Speed (Capacitor Start Low Speed, PSC High Speed)
- Sealed Ball Bearings
- 50˚C Ambient
- Auto Protector

**SDS1102**

Four Thru Bolts on a 5.146 Bolt CircleReplacement Motor for Dimension One, Hydroquip, GPM Industries, Hawkeye, Marquis and Master Spas

| HP | RPM | Volts | Amps | Service Factor | THP | Frame | Stock Number | Insulation Class | Approx. "AG" | Dim. "BX" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 / .12 | 3450/1725 | 115 | 10.4/3.6 | 1.0 | 1.0 | 56Z | **SDS1102** ★ | B | 10.30 | 8.85 | **$** |
| 1.5 / .19 | 3450/1725 | 230 | 7.2/2.4 | 1.0 | 1.5 | 56Z | **SDS1152** ★ | F | 10.79 | 9.34 | **$** |
| 2.0 / .25 | 3450/1725 | 230 | 8.5/3.0 | 1.0 | 2.0 | 56Z | **SDS1202** ★ | F | 11.42 | 9.98 | **$** |
| 2.5 / .25 | 3450/1725 | 230 | 10.7/3.0 | 1.0 | 2.5 | 56Z | **SDS1252** ★ | F | 10.67 | 9.23 | **$** |
| 3.0 / .38 | 3450/1725 | 230 | 12.0/3.7 | 1.0 | 3.0 | 56Z | **SDS1302** ★ | F | 10.92 | 9.48 | **$** |

**Note:**

**$** Energy efficient
When crossing to an original equipment Century Motor, use the Quick Cross Reference table. Find the amps and model number of the OEM motor on the motor nameplate. Find the equivalent amps and model number on the Quick Cross Reference table below. The replacement is the stock number listed in the "Use" column. The horsepower and service factor may not be the same, but the motors are the same.

**QUICK CROSS REFERENCE BY AMPS AND MOTOR MODEL NUMBER**

| Name Plate Amps | Name Plate Model No. | Use Stock No. |
|---|---|---|
| 10.4 / 3.6 | K48L2A1 | **SDS1102** |
| 7.2 / 2.4 | K48M2A4 | **SDS1152** |
| 8.5 / 3.0 | K48N2A5 | **SDS1202** |
| 10.7 / 3.0 | K48N2A4C2 | **SDS1252** |
| 12.0 / 3.7 | K48P2A1 | **SDS1302** |

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)
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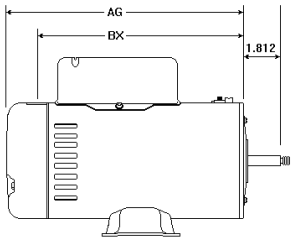



**Important:**

The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# Above Ground Swimming Pool & Spa Pump Motors

## Jetted Tub/Spa/Above Ground Swimming Pool Pump Motors – Split Phase, Capacitor Start & PSC Single-phase – Dripproof – Ball Bearing – Rigid Base & No Base – 3450 and 3450/1725 RPM – 1/2 thru 4 HP SP

BV90

### Hoffinger Replacement (Doughboy/Lomart) • No Base

| HP | RPM | Volts | Hz | Full Load Amps | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | 3450 | 115 | 60 | 10.0 | 1.0 | 1.0 | 48Y | **BV90** | Threaded | Auto | 10.45 | |
| **1** | 3450 | 115 | 60 | 9.0 | 1.0 | 1.0 | 48Y | **BV91** | Threaded | Auto | 10.22 | 285 |

**Notes:**
285. 3/8-16, Left hand threads, CWPE rotation

★ Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1) www.energy.ca.gov

# Century® Pool Cleaner Replacement Pump Motors

## Permanent Split Capacitor – Switchless – Single Phase – Dripproof

## No Base & Rigid Base – 3600 RPM

### Features:

- Ball Bearings
- CW Non-Reversible
- Aluminum Adapter Bracket
- 40˚C Ambient
- 303 Stainless Steel Shaft
- 60 Hz
- Class B Insulation
- "1081" Features

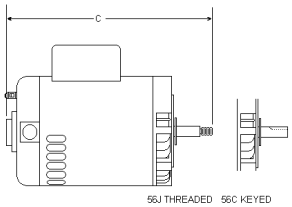
**B662 & B663**

**Applications:** Replacement motor for Arneson "Pool Sweep," Polaris "Vac-Sweep" and Letro "Jet Vac" brand pool cleaners.

| HP | RPM | Volts | Service Factor Amps | Service Factor | THP | Frame | Stock Number | Shaft | Base | Mount | Overload Protector | "C" Dim. | Brand | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/4** | 3450 | 230/115 | 6.4/12.8 | 1.50 | 1.13 | 56CZ | **B625** | Threaded | None | Horizontal | Auto | 14.03 | Polaris | 222 |
| **3/4** | 3450 | 230/115 | 6.0/12.0 | 1.50 | 1.13 | 56Y | **B662** | Threaded | Rigid | Horizontal | Auto | 11.74 | Arneson | 12 |
| **3/4** | 3450 | 230/115 | 6.0/12.0 | 1.50 | 1.13 | 56Y | **B663** | Threaded | None | Vertical | Auto | 10.89 | Arneson | 12 |
| **3/4** | 3450 | 230/115 | 6.0/12.0 | 1.50 | 1.13 | 56Y | **B667** | Threaded | Rigid | Horizontal | Auto | 12.97 | Letro | 12,247 |
| **3/4** | 3450 | 230/115 | 6.5/13.0 | 1.50 | 1.13 | 56CZ | **B668** | Threaded | None | Horizontal | Auto | 13.87 | Letro | 246 |

**Notes:**
12. 303 Stainless steel shaft
222. Does not have Aluminum Adapter Bracket
246. B668 fits pump #LA01N manufactured March 1997 to present
247. B667 fits pump #LA01 manufactured March 1997 and prior

Pool Cleaner (Booster Pump ) motors are not included in the California Energy Commission Aplliance Regulations 2006 (Publication Number CEC 400-2006-002 REV 1)




**Important:**
1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



Phone: 866.887.5216

## Horizontal – Dripproof – No Base

## 2 Pole - 5 thru 15 HP

R338M2

### Features:

- Ball Bearings
- 40˚C Ambient
- Reversible
- External Slinger
- Keyed Shaft, Non NEMA Dim.
- D Flange

**Applications:** Purex "C" Series Commercial Pump.

| HP | RPM | Volts | Service Factor | THP | Hertz | Full Load Amps | Frame | Insul Class | Stock Number | Overload | "C" Dim | EFF | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Single Phase * Capacitor Start** | | | | | | | | | | | | | |
| **5** | 3520 | 230 | 1.15 | 5.75 | 60 | 25.4 | 184TDZ | F | **V214M2** | None | 17.32 | 78.5 | 2194 |
| **Three Phase** | | | | | | | | | | | | | |
| **5** | 3490/2880 | 208-220/440 | 1.15 | 5.75 | 60/50 | 13.6-13/6.5 | 182TDZ | F | **R237M2** | None | 14.32 | 85.5 | 6, 2194 |
| **7.5** | 3470/2850 | 208-220/440 | 1.15 | 8.63 | 60/50 | 19-18.4/9.2 | 184TDZ | F | **R232M2** | None | 16.32 | 87.5 | 6, 2194 |
| **7.5** | 3470 | 200 | 1.15 | 8.63 | 60 | 20.3 | 184TDZ | F | **R257M2** | None | 15.32 | 87.5 | 2194 |
| **10** | 3500/2865 | 208-220/440 | 1.15 | 11.50 | 60/50 | 26.3-25.3/12.7 | 213TDZ | F | **R338M2** | None | 16.54 | 88.5 | 6, 2194 |
| **15** | 3525/2910 | 208-220/440 | 1.15 | 17.25 | 60/50 | 40.5-38/19 | 215TDZ | F | **R339M2** | None | 18.04 | 89.5 | 6, 2194 |

**Notes:**

6. 60/50 HZ

2194. OEM Purex Frame Suffix "TY" is equivalent to current Frame Suffix "TDZ"

# Century® Pentair/Pac Fab Replacement Pump Motors

## Square Flange – Horizontal – Dripproof

## No Base – 60 HZ

B1000

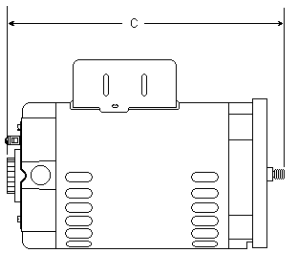
### Features:

- Ball Bearings
- 40˚C Ambient
- Class B Insulation

| HP | RPM | Volts | Service Factor | THP | Hertz | Full Load Amps | Frame | Insul Class | Stock Number | Pac Fab Number | "C" Dim | EFF | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Single Phase PSC "1081"** | | | | | | | | | | | | | |
| **5** | 3450 | 208-230 | 1.0 | 5.00 | 60 | 21.0-19.4 | 56Y | B | **B1000** | 35-5705 | 14.9 | | |
| **Three Phase "1081"** | | | | | | | | | | | | | |
| **3** | 3450 | 208-230/460 | 1.15 | 3.45 | 60 | 9.8-9.6/4.8 | 56Y | B | **H755** | | 13.9 | | 90 |
| **5** | 3450 | 208-230/460 | 1.0 | 5.00 | 60 | 13.4-13.4-6.7 | 56Y | B | **H995** | 35-5704 | 14.9 | | |

**Notes:**

90. 50°C Ambient




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# Special Direct Replacement Pump Motors

Important: Total horsepower (HP x service factor) of replacement motor must equal or exceed motor being replaced

### Features:

- Auto Protector
- CCWPE Rotation
- Ball Bearings
- 60 Hz
- Capacitor Start
- Internally Mounted Capacitor
- Continuous Duty
- 40°C Ambient
- High Service Factors
- Sealed Switch Design
- 303 Stainless Steel Thrd. Shafts

R1052

## VERTICAL MOUNT - ROUND FLANGE - SINGLE PHASE

| HP | RPM | Volts | Max Amps | Service Factor | Frame | Stock Number | Bearings | Enclosure | Shaft | Insul. Class | "AG" Dim | Sta-Rite Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 115/230 | 12.4/6.2 | 1.90 | 48Y | **R1052** | Ball | ODP | Spl Thd | B | 9.50 | A200CH |
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.65 | 48Y | **R1072** | Ball | ODP | Spl Thd | B | 10.13 | A200DH |
| **1** | 3450 | 115/230 | 19.2/9.6 | 1.65 | 48Y | **R1102** | Ball | ODP | Spl Thd | B | 11.19 | A200EH |

R1072ES

## ROUND FLANGE - EXTENDED SHAFT - SINGLE PHASE

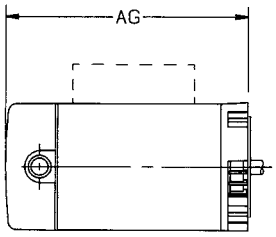
| HP | RPM | Volts | Max Amps | Service Factor | Frame | Stock Number | Enclosure | Shaft | Insul. Class | "AG" Dim | Sta-Rite Reference | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.65 | 48Y | **R1072ES** | ODP | Spl Thd | B | 10.13 | A300DH | |
| **1** | 3450 | 115/230 | 19.2/9.6 | 1.65 | 48Y | **R1102ES** | ODP | Spl Thd | B | 11.19 | A300EH | |
| **1.5** | 3450 | 230 | 12.0 | 1.47 | 48Y | **R1152ES** | ODP | Spl Thd | B | 11.94 | A300FH | |
| **2** | 3450 | 230 | 11.5 | 1.30 | 48Y | **R1202ES** | ODP | Spl Thd | B | 11.94 | AE300GH | 20,$ |

Q1072ES

## SQUARE FLANGE - EXTENDED SHAFT - SINGLE PHASE

| HP | RPM | Volts | Max Amps | Service Factor | Frame | Stock Number | Bearings | Enclosure | Shaft | Insul Class | "AG" Dim. | Sta-Rite Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.65 | 48Y | **Q1072ES** | Ball | ODP | Spl Thd | B | 13.13 | A700DH |
| **1** | 3450 | 115/230 | 19.2/9.6 | 1.65 | 48Y | **Q1102ES** | Ball | ODP | Spl Thd | B | 13.5 | A700EH |
| **1.5** | 3450 | 115/230 | 24.0/12.0 | 1.47 | 48Y | **Q1152ES** | Ball | ODP | Spl Thd | B | 12.13 | A700FH |

**Note:**
**$** Energy Efficient **$**
20. **$** Energy Efficient capacitor start, capacitor run "Conservationist™" motor



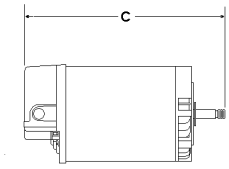
## NEMA C-Face – Dripproof – No Base – 60 Hz – Energy Efficient

### Features:

- Ball Bearings
- 50˚C Ambient
- 303 Stainless Steel Shaft
- Class B Insulation
- 60 Hz
- Low Noise
- Switchless
- E-Coated Main Frame for Superior Corrosion Resistance
- Cool Running for Longer Winding Life

| HP | RPM | Volts | Full Load Amps | Service Factor | THP | Frame | Stock Number | Industry Number | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Full Rated** | | | | | | | | | | |
| **3/4** | 3450 | 208-230/115 | 6.0-5.5/11.0 | 1.85 | 1.39 | 56J | **SN1072** | SP1607Z1BNSC | 13.10 | **$** |
| **1** | 3450 | 208-230/115 | 8.5-7.8/15.6 | 1.85 | 1.85 | 56J | **SN1102** | SP1610Z1BNSC | 13.35 | **$** |
| **1.5** | 3450 | 208-230/115 | 11.0-10.2/20.4 | 1.60 | 2.4 | 56J | **SN1152** | SP1615Z1BNSC | 13.85 | **$** |
| **2** | 3450 | 208-230 | 13.0-11.8 | 1.35 | 2.7 | 56J | **SN1202** | SP1620Z1BNSC | 14.60 | **$** |
| **3** | 3450 | 208-230 | 20.6-19.0 | 1.60 | 4.8 | 56J | **SN1302** | SP1630Z1BNSC | 16.10 | **$** |
| **Uprated** | | | | | | | | | | |
| **1** | 3450 | 208-230/115 | 6.0-5.5/11.0 | 1.40 | 1.40 | 56J | **USN1102** | Sp1607Z1MNSC | 13.10 | **$** |
| **1.5** | 3450 | 208-230/115 | 8.5-7.8/15.6 | 1.25 | 1.88 | 56J | **USN1152** | SP1610Z1MNSC | 13.35 | **$** |
| **2** | 3450 | 208-230/115 | 11.0-10.2/20.4 | 1.20 | 2.4 | 56J | **USN1202** | SP1615Z1MNSC | 13.85 | **$** |
| **2.5** | 3450 | 208-230 | 13.0-11.8 | 1.10 | 2.75 | 56J | **USN1252** | SP1620Z1MNSC | 14.60 | **$** |
| **3** | 3450 | 208-230 | 16.0-14.8 | 1.20 | 3.6 | 56J | **USN1302** | SP1625Z1MNSC | 14.85 | **$** |

**Note:**
**$** Energy Efficient **$**




**Important:**
1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING**

Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

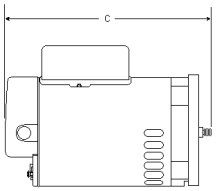
# Century® Hayward TriStar Replacement Pump Motors

### Features:

- 303 Stainless Steel Shaft
- 60˚C Ambient
- Automatic Protector
- Ball Bearing
- Capacitor Start/Capacitor Run
- Class F Insulation
- Energy Efficient
- Open Drip Proof
- Single Phase

**Single Speed - "1081" Capacitor Start/Capacitor Run - High Efficiency - Square Flange - Full Rate**

| HP | RPM | Volts | Amps | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim | Industry Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 115/208-230 | 8.6/5.0-4.30 | 1.99 | 1.0 | 56Y | **HSQ1052** | Threaded | Auto | 12.8 | SP3205Z1BE |
| **3/4** | 3450 | 115/208-230 | 11.6/7.0-5.8 | 1.85 | 1.39 | 56Y | **HSQ1072** | Threaded | Auto | 13.1 | SP3207Z1BE |
| **1** | 3450 | 115/208-230 | 15.0/8.8-7.5 | 1.85 | 1.85 | 56Y | **HSQ1102** | Threaded | Auto | 13.4 | SP3210Z1BE |
| **1.5** | 3450 | 115/208-230 | 20.0/12.0-10.0 | 1.60 | 2.4 | 56Y | **HSQ1152** | Threaded | Auto | 13.8 | SP3215Z1BE |
| **2** | 3450 | 208-230 | 12.0-11.0 | 1.35 | 2.7 | 56Y | **HSQ1202** | Threaded | Auto | 4.1 | SP3220Z1BE |
| **3** | 3450 | 208-230 | 15.4 | 1.20 | 3.6 | 56Y | **HSQ1302** | Threaded | Auto | 15.12 | SP3230Z1BE |
| **5** | 3450 | 208-230 | 22.0 | 1.0 | 5.0 | 56Y | **HSQ1502** | Threaded | Auto | 15.12 | SP3240Z1ME |




**Important:**
1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING**

Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# NEMA C-Face 3-Phase Pump Motors

### Features:

T3052

- Ball Bearings
- Continuous Duty
- Open Dripproof
- NEMA "56C" Mount
- 40°C Ambient
- 60 Hz
- Internal Junction Box
- Keyed and Stainless Steel Threaded Shafts

NEMA C Face mounting bracket, and end frames are die-cast corrosion resistant aluminum, accurately machined for maximum concentricity, and minimum runout. Stator assemblies are press fitted into rolled steel main frames. Double shielded ball bearings, selected for quiet operation, are lubricated for life with greases specifically chosen for moisture and heat resistant qualities.

1/2" x 14 thread tapped opening is provided for conduit fitting. No external junction box required connections made under motor canopy. Motors are supplied with horizontal canopy but are easily converted for vertical operation with the use of optional vertical canopy (#621335-002).

| HP | RPM | Volts | Max. Amps | Service Factor | THP | Frame | Stock Number | Shaft | Protector | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 208-230/460 | 2.7/1.35 | 1.6 | 0.8 | 56J | **T3052** | Thrd | None | 8-5/8 | |
| **3/4** | 3450 | 208-230/460 | 3.4/1.7 | 1.5 | 1.125 | 56C | **K3072** | Key | None | 9-1/8 | |
| **3/4** | 3450 | 208-230/460 | 3.4/1.7 | 1.5 | 1.125 | 56J | **T3072** | Thrd | None | 9-1/8 | |
| **1** | 3450 | 208-230/460 | 4.0/2.0 | 1.4 | 1.4 | 56C | **K3102** | Key | None | 9-11/16 | |
| **1** | 3450 | 208-230/460 | 4.0/2.0 | 1.4 | 1.4 | 56J | **T3102** | Thrd | None | 9-11/16 | |
| **1.5** | 3450 | 208-230/460 | 6.8/3.4 | 1.3 | 1.95 | 56C | **K3152** | Key | None | 11-5/16 | |
| **1.5** | 3450 | 208-230/460 | 6.8/3.4 | 1.3 | 1.95 | 56J | **T3152** | Thrd | None | 11-5/16 | |
| **2** | 3450 | 208-230/460 | 8.6/4.3 | 1.2 | 2.4 | 56C | **K3202** | Key | None | 11-5/16 | |
| **2** | 3450 | 208-230/460 | 8.6/4.3 | 1.2 | 2.4 | 56J | **T3202** | Thrd | None | 11-5/16 | |

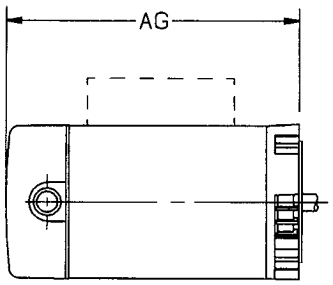
Q3052

## THREE PHASE SQUARE FLANGE PUMP MOTORS

### Features:

All Copper Windings • Open Dripproof • 303 Stainless Steel Threaded Shaft • Sealed Ball Bearings • 50°C Ambient • 60 Hz

| HP | RPM | Amps Volts | Service Hi - Lo | Factor | THP | Frame | Stock Number | Overload Protector | Approx. "AG" |
|---|---|---|---|---|---|---|---|---|---|
| **1/2** | 3450 | 208-230/460 | 3.0/1.5 | 1.9 | .95 | 48Y | **Q3052** | None | 9-7/8 |
| **3/4** | 3450 | 208-230/460 | 3.6/1.8 | 1.65 | 1.24 | 48Y | **Q3072** | None | 10-3/8 |
| **1** | 3450 | 208-230/460 | 4.7/2.35 | 1.65 | 1.65 | 48Y | **Q3102** | None | 10-7/8 |
| **1.5** | 3450 | 208-230/460 | 6.8/3.4 | 1.47 | 2.21 | 48Y | **Q3152** | None | 11-7/8 |
| **2** | 3450 | 208-230/460 | 8.5/4.25 | 1.3 | 2.6 | 48Y | **Q3202** | None | 12-5/8 |
| **3** | 3450 | 200-230/460 | 9.7/4.9 | 1.15 | 3.45 | 56Y | **Q3302V1** | None | 12 |




**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.



Phone: 866.887.5216

## Squirrel Cage (Three Phase) – Dripproof – 3600/3000 RPM – 1/2 thru 3 HP

### Features:

- Ball Bearings
- Cast Iron NEMA "C" Bracket
- 50/60 Hz
- 40˚C Ambient
- 303 Stainless Steel Shaft
- Class A or B Insulation
- Reversible (Three Phase)

H281

### 60/50 Hz • Three Phase "1081" • Full Rate • High Service Factor

| HP | RPM | Volts | Service Factor Amps@ 60 Hz | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | Insul. Class | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 3450 | 208-230/460 | 2.1-2.4/1.2 | 1.60 | 0.8 | 56C | **H281** | Keyed | None | A | 11.87 | 282 |
| 1/2 | 3450 | 208-230/460 | 2.1-2.4/1.2 | 1.60 | 0.8 | 56J | **H282** | Threaded | None | A | 12.05 | 282 |
| 3/4 | 3450 | 208-230/460 | 3.7-3.6/1.8 | 1.50 | 1.13 | 56C | **H450** | Keyed | None | A | 12.80 | 282 |
| 3/4 | 3450 | 208-230/460 | 3.7-3.6/1.8 | 1.50 | 1.13 | 56J | **H451** | Threaded | None | A | 12.12 | 282 |
| 1 | 3450 | 208-230/460 | 4.3-4.0/2.0 | 1.40 | 1.40 | 56C | **H513** | Keyed | None | A | 12.62 | 282 |
| 1 | 3450 | 208-230/460 | 4.3-4.0/2.0 | 1.40 | 1.40 | 56J | **H514** | Threaded | None | A | 12.12 | 282 |
| 1.5 | 3450 | 208-230/460 | 5.9-5.6/2.8 | 1.30 | 1.95 | 56C | **H616** | Keyed | None | A | 13.24 | 282 |
| 1.5 | 3450 | 208-230/460 | 5.9-5.6/2.8 | 1.30 | 1.95 | 56J | **H617** | Threaded | None | A | 12.62 | 282 |
| 2 | 3450 | 208-230/460 | 7.0-6.6/3.3 | 1.20 | 2.4 | 56C | **H704** | Keyed | None | A | 13.62 | 282 |
| 2 | 3450 | 208-230/460 | 7.0-6.6/3.3 | 1.20 | 2.4 | 56J | **H705** | Threaded | None | A | 13.12 | 282 |
| 3 | 3450 | 208-230/460 | 9.6-9.2/4.6 | 1.15 | 3.45 | 56C | **H740** | Keyed | None | B | 13.30 | 257 |
| 3 | 3450 | 208-230/460 | 9.6-9.2/4.6 | 1.15 | 3.45 | 56J | **H741** | Threaded | None | B | 13.12 | 257 |

**Note:**
257. 60 HZ only
282. 3450 RPM for 60 HZ and 2875 RPM for 50 HZ

# Centurion® Square Flange Pool and Spa Pump Motors

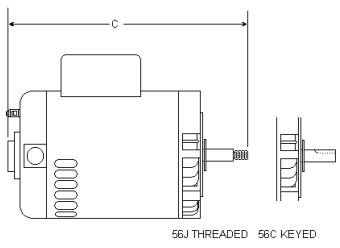
## Squirrel Cage – Three Phase – Dripproof – No Base – 3600 RPM – 1/2 thru 3 HP

### Features:

- Ball Bearings
- Class B Insulation
- 60 Hz
- 303 Stainless Steel Threaded Shafts
- 50°C Ambient

H491

| HP | RPM | Volts | Service Factor Amps@ 60 Hz | Service Factor | THP | Frame | Stock Number | Shaft | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 3450 | 208-230/460 | 3.2-3.0/1.5 | 1.90 | 0.95 | 56Y | **H491** | Threaded | None | 12.2 | |
| 3/4 | 3450 | 208-230/460 | 3.8-3.6/1.8 | 1.65 | 1.24 | 56Y | **H492** | Threaded | None | 12.8 | |
| 1 | 3450 | 208-230/460 | 5.0-4.6/2.3 | 1.65 | 1.65 | 56Y | **H635** | Threaded | None | 13.2 | |
| 1.5 | 3450 | 208-230/460 | 6.4-5.8/2.9 | 1.47 | 2.21 | 56Y | **H636** | Threaded | None | 13.4 | |
| 2 | 3450 | 208-230/460 | 7.1-6.8/3.4 | 1.30 | 2.6 | 56Y | **H637** | Threaded | None | 13.9 | |
| 3 | 3450 | 208-230/460 | 9.0-8.6/4.3 | 1.15 | 3.45 | 56Y | **H755** | Threaded | None | 13.9 | |




**Important:**
1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

**⚠ WARNING** Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

# NEMA-C Face Single Phase Jet Pump Motors

Important: Total horsepower (HP x service factor) of replacement motor must equal or exceed motor being replaced

T1032

### Features:

- Auto Protector
- Ball Bearings
- CCWPE & Reversible
- Capacitor Start
- Internally Mounted Capacitor
- Continuous Duty
- Sealed Switch Design
- 40˚C Ambient
- 60 Hz
- High Service Factors
- NEMA “56C” Mount
- “778” Design
- Carbon Keyed and 303 Stainless Steel Thrd. Shafts

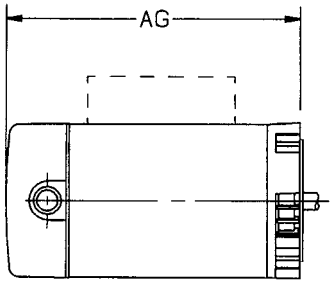
**WARNING:** Not a suitable replacement for swim pool pump motors.

#### NEMA-C Face Single Phase Jet Pump Motors

| HP | RPM | Volts | Max. Amps | Service Factor | Frame | Stock Number | Enclosure | Shaft | Insul Class | Rotation | “AG” Dim | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/3** | 3450 | 115/230 | 8.6/4.3 | 1.80 | 56C | **K1030** | ODP | Keyed | B | CCWPE | 8-1/4 | |
| **1/3** | 3450 | 115/230 | 8.6/4.3 | 1.80 | 56C | **K1032** | ODP | Keyed | B | REV | 8-1/4 | |
| **1/3** | 3450 | 115/230 | 8.6/4.3 | 1.80 | 56J | **T1032** | ODP | Threaded | B | CCWPE | 8-1/4 | 12 |
| **1/2** | 3450 | 115/230 | 10.8/5.4 | 1.60 | 56C | **K1050** | ODP | Keyed | B | CCWPE | 8-5/8 | |
| **1/2** | 3450 | 115/230 | 10.8/5.4 | 1.60 | 56C | **K1052** | ODP | Keyed | B | REV | 8-5/8 | |
| **1/2** | 3450 | 115/230 | 10.8/5.4 | 1.60 | 56J | **T1052** | ODP | Threaded | B | CCWPE | 8-5/8 | 12 |
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.50 | 56C | **K1070** | ODP | Keyed | B | CCWPE | 9-1/2 | |
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.50 | 56C | **K1072** | ODP | Keyed | B | REV | 9-1/2 | |
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.50 | 56J | **T1072** | ODP | Threaded | B | CCWPE | 9-1/2 | 12 |
| **1** | 3450 | 115/230 | 16.2/8.1 | 1.40 | 56C | **K1100** | ODP | Keyed | B | CCWPE | 10 | |
| **1** | 3450 | 115/230 | 16.2/8.1 | 1.40 | 56C | **K1102** | ODP | Keyed | B | REV | 10 | |
| **1** | 3450 | 115/230 | 16.2/8.1 | 1.40 | 56J | **T1102** | ODP | Threaded | B | CCWPE | 10 | 12 |
| **1.5** | 3450 | 115/230 | 22.0/11.0 | 1.30 | 56C | **K1150** | ODP | Keyed | B | CCWPE | 11-5/16 | |
| **1.5** | 3450 | 115/230 | 22.0/11.0 | 1.30 | 56C | **K1152** | ODP | Keyed | B | REV | 11-5/16 | |
| **1.5** | 3450 | 115/230 | 22.0/11.0 | 1.30 | 56J | **T1152** | ODP | Threaded | B | CCWPE | 11-5/16 | 12 |
| **2** | 3450 | 115/230 | 22.6/11.3 | 1.20 | 56C | **K1200** | ODP | Keyed | B | CCWPE | 11-15/16 | 20,$ |
| **2** | 3450 | 115/230 | 22.6/11.3 | 1.20 | 56C | **K1202** | ODP | Keyed | B | REV | 11-15/16 | 20,$ |
| **2** | 3450 | 115/230 | 22.6/11.3 | 1.20 | 56J | **T1202** | ODP | Threaded | B | CCWPE | 11-15/16 | 20,$ |
| **3** | 3450 | 208-230 | 15.0-13.3 | 1.15 | 56C | **SK1302V1** | ODP | Keyed | B | CWLE | 13-7/8 | 12,20,90,142,$ |
| **3** | 3450 | 208-230 | 15.0-13.3 | 1.15 | 56J | **ST1302V1** | ODP | Threaded | B | CWLE | 14-3/16 | 20,90,142,$ |

**Notes:**

$ Energy Efficient
12. 303 Stainless Steel Shaft
20. **$** Energy Efficient capacitor start, capacitor run “Conservationist” motor
90. 50°C ambient
142. Service factor amps



Important: Total horsepower (HP x service factor) of replacement motor must equal or exceed motor being replaced

## Features:

- High Service Factors
- Rotation-CCW Pump End
- Continuous Duty
- 303 Stainless Steel Thrd. Shafts
- Capacitor Start
- Internally Mounted Capacitor
- Sealed Switch Design
- "778" Design
- 60 Hz
- 50˚C Ambient

Q1032

**WARNING:** Not a suitable replacement for square flange swim pool pump motors.

### Square Flange Single Phase Jet Pump Motors

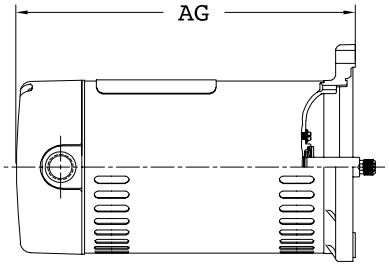
| HP | RPM | Volts | Maximum Amps | Service Factor | Frame | Stock Number | Bearings | Enclosure | Insul Class | Protector | Approx. "AG" | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/3** | 3450 | 115/230 | 9.9/4.95 | 1.95 | 48Y | **Q1032** | Ball | ODP | B | Auto | 9.63 | |
| **1/2** | 3450 | 115/230 | 12.4/6.2 | 1.90 | 48Y | **Q1052** | Ball | ODP | B | Auto | 10.38 | |
| **3/4** | 3450 | 115/230 | 14.8/7.4 | 1.65 | 48Y | **Q1072** | Ball | ODP | B | Auto | 11.00 | |
| **1** | 3450 | 115/230 | 19.9/9.95 | 1.65 | 48Y | **Q1102** | Ball | ODP | B | Auto | 11.88 | |
| **1.5** | 3450 | 115/230 | 24.0/12.0 | 1.47 | 48Y | **Q1152** | Ball | ODP | B | Auto | 12.63 | |
| **2** | 3450 | 115/230 | 24.0/12.0 | 1.25 | 48Y | **Q1202** | Ball | ODP | B | Auto | 12.63 | 20,31,$ |

**Notes:**

$ Energy Efficient

20. **$** Energy Efficient capacitor start, capacitor run "Conservationist" motor

31. 40 degree C ambient



# Century® NEMA "C" Face Commercial Pump Motors

## Commercial Pump Motors – Three Phase – Squirrel Cage – Dripproof, TEFC & TENV
## No Base 3600 RPM – 1/3 thru 3 HP

**Features:** Double Sealed Ball bearings • 60 Hz • 40°C Ambient

**Applications:** Domestic, commercial and industrial water systems. May be mounted horizontally or vertically, open or enclosed, keyed or threaded shaft. Shaft end ball bearings locked in bracket takes all pump thrust.

H506

### DRIPPROOF

| HP | RPM | Volts | Service Factor Amps | Service Factor | Frame | Stock Number | Enclosure | Shaft | Insul. Class | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/3** | 3450/2850 | 200-230/460 | 2.0-1.8/.9 | 1.75 | 56C | **H251** | ODP | Keyed | B | None | 10.5 | 6,48,267 |
| **1/3** | 3450 | 575 | 0.72 | 1.75 | 56C | **H198** | ODP | Keyed | B | None | 10.5 | |
| **1/3** | 3450/2850 | 200-230/460 | 2.0-1.8/.9 | 1.75 | 56J | **H137** | ODP | Threaded | B | None | 11.0 | 6,12,267 |
| **1/2** | 3450/2850 | 208-230/460 | 2.6-2.6/1.3 | 1.60 | 56C | **H254** | ODP | Keyed | B | None | 10.5 | 6,48,267 |
| **1/2** | 3450 | 575 | 0.90 | 1.60 | 56C | **H247** | ODP | Keyed | B | None | 10.5 | |
| **1/2** | 3450/2850 | 208-230/460 | 2.6-2.6/1.3 | 1.60 | 56J | **H155** | ODP | Threaded | B | None | 11.0 | 6,12,267 |
| **1/2** | 3450 | 575 | 0.9 | 1.60 | 56J | **H248** | ODP | Threaded | B | None | 11.0 | 12 |
| **3/4** | 3450/2850 | 208-230/460 | 3.4-3.4/1.7 | 1.50 | 56C | **H508** | ODP | Keyed | B | None | 11.3 | 6,48,267 |
| **3/4** | 3450 | 575 | 1.2 | 1.50 | 56C | **H298** | ODP | Keyed | B | None | 11.3 | |
| **3/4** | 3450/2850 | 208-230/460 | 3.4-3.4/1.7 | 1.50 | 56J | **H446** | ODP | Threaded | B | None | 11.8 | 6,12,267 |
| **3/4** | 3450 | 575 | 1.2 | 1.50 | 56J | **H299** | ODP | Threaded | B | None | 11.8 | 12 |
| **1** | 3450/2850 | 208-230/460 | 4.3-4.0/2.0 | 1.40 | 56C | **H511** | ODP | Keyed | B | None | 11.3 | 6,48,267 |
| **1** | 3450 | 575 | 1.5 | 1.40 | 56C | **H428** | ODP | Keyed | B | None | 11.3 | |
| **1** | 3450/2850 | 208-230/460 | 4.3-4.0/2.0 | 1.40 | 56J | **H506** | ODP | Threaded | B | None | 11.8 | 6,12,267 |
| **1** | 3450 | 575 | 1.5 | 1.40 | 56J | **H429** | ODP | Threaded | B | None | 11.8 | 12 |
| **1.5** | 3450/2850 | 208-230/460 | 5.8-5.6/2.8 | 1.30 | 56C | **H609** | ODP | Keyed | B | None | 11.8 | 6,48,267 |
| **1.5** | 3450 | 575 | 1.75 | 1.30 | 56C | **H592** | ODP | Keyed | B | None | 11.8 | |
| **1.5** | 3450/2850 | 208-230/460 | 5.8-5.6/2.8 | 1.30 | 56J | **H607** | ODP | Threaded | B | None | 12.3 | 6,12,267 |
| **1.5** | 3450 | 575 | 1.75 | 1.30 | 56J | **H593** | ODP | Threaded | B | None | 12.3 | 12 |
| **2** | 3450/2850 | 200-230/460 | 6.8-6.6/3.3 | 1.20 | 56C | **H612** | ODP | Keyed | B | None | 12.3 | 6,48,267 |
| **2** | 3450 | 575 | 2.5 | 1.20 | 56C | **H628** | ODP | Keyed | B | None | 12.3 | |
| **2** | 3450/2850 | 200-230/460 | 6.8-6.6/3.3 | 1.20 | 56J | **H733** | ODP | Threaded | B | None | 12.8 | 6,12,267 |
| **2** | 3450 | 575 | 2.5 | 1.20 | 56J | **H629** | ODP | Threaded | B | None | 12.8 | 12 |
| **3** | 3450 | 200-230/460 | 9.8-9.6/4.8 | 1.15 | 56C | **H736** | ODP | Keyed | B | None | 12.3 | |
| **3** | 3450 | 575 | 3.4 | 1.15 | 56C | **H713** | ODP | Keyed | B | None | 12.3 | |
| **3** | 3450 | 200-230/460 | 9.8-9.6/4.8 | 1.15 | 56J | **H734** | ODP | Threaded | B | None | 12.8 | 12 |
| **3** | 3450 | 575 | 3.4 | 1.15 | 56J | **H714** | ODP | Threaded | B | None | 12.8 | 12 |

### TEFC

| HP | RPM | Volts | Service Factor Amps | Service Factor | Frame | Stock Number | Enclosure | Shaft | Insul. Class | Overload Protector | "C" Dim. | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/3** | 3450 | 200-230/460 | 1.3-1.4/.7 | 1.15 | 56J | **H259** | TENV | Threaded | B | None | 9.7 | 12 |
| **1/2** | 3450 | 200-230/460 | 1.9-1.8/.9 | 1.15 | 56C | **H192** | TENV | Keyed | B | None | 9.5 | |
| **1/2** | 3450 | 200-230/460 | 1.9-1.8/.9 | 1.15 | 56J | **H283** | TENV | Threaded | B | None | 10.1 | 12 |
| **3/4** | 3450 | 200-230/460 | 2.6-2.4/1.2 | 1.15 | 56C | **H193** | TEFC | Keyed | B | None | 11.3 | |
| **3/4** | 3450 | 200-230/460 | 2.6-2.4/1.2 | 1.15 | 56J | **H515** | TEFC | Threaded | B | None | 11.9 | 12 |
| **3/4** | 3450 | 575 | 0.92 | 1.00 | 56J | **H966** | TEFC | Threaded | B | None | 11.8 | 12 |
| **1** | 3450 | 200-230/460 | 3.2-3.0/1.5 | 1.15 | 56C | **H194** | TEFC | Keyed | B | None | 11.3 | |
| **1** | 3450 | 200-230/460 | 3.2-3.0/1.5 | 1.15 | 56J | **H516** | TEFC | Threaded | B | None | 11.8 | 12 |
| **1** | 3450 | 575 | 1.15 | 1.00 | 56J | **H967** | TEFC | Threaded | B | None | 11.8 | 12 |
| **1.5** | 3450 | 200-230/460 | 4.5-4.2/2.1 | 1.15 | 56C | **H195** | TEFC | Keyed | B | None | 11.7 | |
| **1.5** | 3450 | 200-230/460 | 4.5-4.2/2.1 | 1.15 | 56J | **H661** | TEFC | Threaded | B | None | 12.3 | 12 |
| **1.5** | 3450 | 575 | 1.6 | 1.00 | 56J | **H968** | TEFC | Threaded | B | None | 12.2 | 12 |
| **2** | 3450 | 200-230/460 | 6.0-5.3/2.65 | 1.15 | 56C | **H196** | TEFC | Keyed | B | None | 12.2 | |
| **2** | 3450 | 200-230/460 | 6.0-5.5/2.75 | 1.15 | 56J | **H706** | TEFC | Threaded | B | None | 12.8 | 12 |
| **2** | 3450 | 575 | 2.2 | 1.00 | 56J | **H969** | TEFC | Threaded | B | None | 12.7 | 12 |
| **2** | 3450 | 575 | 2.2 | 1.00 | 56C | **H948** | TEFC | Keyed | B | None | 12.6 | 1 |
| **3** | 3450 | 200-230/460 | 8.5-8.2/4.1 | 1.00 | 56C | **H197** | TEFC | Keyed | B | None | 13.5 | |
| **3** | 3450 | 200-230/460 | 8.5-8.2/4.1 | 1.00 | 56J | **H707** | TEFC | Threaded | B | None | 13.8 | 12,104 |
| **3** | 3450 | 575 | 3.1 | 1.00 | 56J | **H970** | TEFC | Threaded | B | None | 14.2 | 12 |

**Notes:**

1. Item to be discontinued when stock is depleted  6. 60/50 Hertz  12. 303 Stainless steel shaft
48. 1.0 Service factor at 50 HZ  104. Vertical mount  267. 50 Hz-1.00 Service Factor, 190/380 volt

## Types JM, JP- Three-Phase - Horizontal - Dripproof - Rigid Base - Rolled Steel 3600 and 1800 RPM - 60 Hz - 1 thru 3 HP - CE, CSA, UL Approvals

CP010

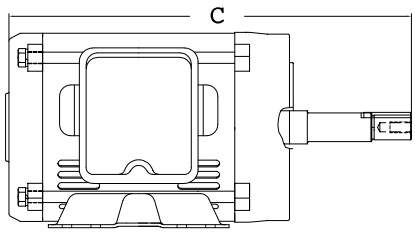
### Features:

- Ball Bearings
- External Slinger
- 60 Hz
- 40°C Ambient
- Oversized Locked Shaft End Bearing
- Frame Suffix Letters JM and JP Designate NEMA Standard Motors

**Applications:** Commercial/industrial pump duty. Designed to meet a wide variety of applications for fluid transfer.

| HP | RPM | Volts | Full Load Amps | Service Factor | Frame | Stock Number | Type | Insulation Class | "C" Dim. | Efficiency | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | 1750 | 208-230/460 | 3.1-2.8/1.4 | 1.15 | 143JM | **CP010** | E+3(NP) | F | 13.8 | 85.5 | |
| **1** | 1745/1425 | 230/460 | 3.0/1.5 | 1.25 | 143JP | **E118E** | E+ | B | 18.6 | 82.5 | |
| **1** | 1750 | 208-230/460 | 3.1-2.8/1.4 | 1.15 | 143JP | **CP011** | E+3(NP) | F | 16.9 | 85.5 | |
| **1.5** | 3500 | 208-230/460 | 4.2-3.8/1.9 | 1.15 | 143JM | **CP014** | E+3(NP) | F | 13.8 | 84 | |
| **1.5** | 3500 | 208-230/460 | 4.2-3.8/1.9 | 1.15 | 143JP | **CP015** | E+3(NP) | F | 16.9 | 84 | |
| **1.5** | 1725 | 230/460 | 4.0/2.0 | 1.25 | 145JP | **E157E** | E+ | B | 17.9 | 84 | |
| **1.5** | 1750 | 208-230/460 | 4.3-3.9/1.95 | 1.15 | 145JM | **CP012** | E+3(NP) | F | 14.02 | 86.5 | |
| **1.5** | 1750 | 208-230/460 | 4.4-3.9/1.95 | 1.15 | 145JP | **CP013** | E+3(NP) | F | 17.9 | 86.5 | |
| **2** | 3450 | 230/460 | 5.4/2.7 | 1.15 | 145JM | **E159E** | E+ | B | 15.9 | 84 | |
| **2** | 3450/2850 | 230/460 | 5.4/2.7 | 1.25 | 145JM | **E172E** | E+ | B | 17.9 | | 6,21 |
| **2** | 3500 | 208-230/460 | 5.5-5.0/2.5 | 1.15 | 145JM | **CP018** | E+3(NP) | F | 14.8 | 85.5 | |
| **2** | 3500 | 208-230/460 | 5.5-5.0/2.5 | 1.15 | 145JP | **CP019** | E+3(NP) | F | 17.9 | 85.5 | |
| **2** | 1750 | 208-230/460 | 5.5-5.0/2.5 | 1.15 | 145JM | **CP016** | E+3(NP) | F | 14.8 | 86.5 | |
| **2** | 1750 | 208-230/460 | 5.5-5.0/2.5 | 1.15 | 145JP | **CP017** | E+3(NP) | F | 14.8 | 86.5 | |
| **3** | 3500 | 208-230/460 | 8.2-7.4/3.7 | 1.15 | 145JM | **CP026** | E+3(NP) | F | 14.8 | 85.5 | |
| **3** | 3500 | 208-230/460 | 8.2-7.4/3.7 | 1.15 | 145JP | **CP027** | E+3(NP) | F | 17.9 | 85.5 | |
| **3** | 3500 | 575 | 2.96 | 1.15 | 145JM | **CP028** | E+3(NP) | F | 14.8 | 85.5 | |
| **3** | 3500 | 575 | 2.96 | 1.15 | 145JP | **CP029** | E+3(NP) | F | 17.9 | 85.5 | |
| **3** | 1750 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JM | **CP020** | E+ | F | 16.34 | 87.5 | |
| **3** | 1750 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JP | **CP021** | E+ | F | 19.44 | 87.5 | |
| **3** | 1750 | 208-230/460 | 8.4-8.0/4.0 | 1.15 | 182JM | **CP022** | E+3(NP) | F | 16.34 | 89.5 | |
| **3** | 1750 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JP | **CP023** | E+3(NP) | F | 19.44 | 89.5 | |
| **3** | 1750 | 575 | 3.2 | 1.15 | 182JM | **CP024** | E+3(NP) | F | 16.34 | 89.5 | |
| **3** | 1750 | 575 | 3.04 | 1.15 | 182JP | **CP025** | E+3(NP) | F | 19.44 | 89.5 | |

**Notes:**
6. 60/50 HZ
21. Terminal in bracket construction



Continued from previous page

## Types JM, JP – Three-Phase – Horizontal – Dripproof – Rigid Base - Rolled Steel
## 3600 and 1800 RPM – 60 Hz – 5 thru 25 HP - CE, CSA, UL Approvals

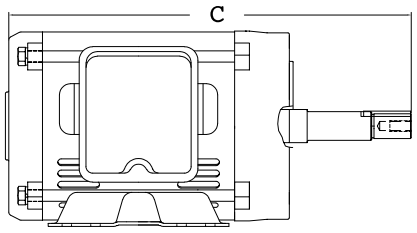
CP036

### Features:

- Ball Bearings
- External Slinger
- 60 Hz
- 40°C Ambient
- Oversized Locked Shaft End Bearing
- Frame Suffix Letters JM and JP Designate NEMA Standard Motors

**Applications:** Commercial/industrial pump duty. Designed to meet a wide variety of applications for fluid transfer.

| HP | RPM | Volts | Full Load Amps | Service Factor | Frame | Stock Number | Type | Insulation Class | "C" Dim. | Efficiency | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **5** | 3500 | 208-230/460 | 13.2-11.8/5.9 | 1.15 | 182JM | **CP038** | E+3(NP) | F | 16.34 | 86.5 | |
| **5** | 3500 | 208-230/460 | 13.7-12.4/6.2 | 1.15 | 182JP | **CP039** | E+3(NP) | F | 19.44 | 86.5 | |
| **5** | 3500 | 208-230/460 | 13.7-12.4/6.2 | 1.15 | 182JM | **CP036** | E+ | F | 16.34 | 87.5 | |
| **5** | 3500 | 208-230/460 | 13.7-12.4/6.2 | 1.15 | 182JP | **CP037** | E+ | F | 19.44 | 87.5 | |
| **5** | 3500 | 575 | 5.0 | 1.15 | 182JM | **CP040** | E+3(NP) | F | 17.37 | 86.5 | |
| **5** | 3500 | 575 | 4.96 | 1.15 | 182JP | **CP041** | E+3(NP) | F | 19.44 | 86.5 | |
| **5** | 1750 | 208-230/460 | 14.0-12.8/6.4 | 1.15 | 184JM | **CP032** | E+3(NP) | F | 17.37 | 89.5 | |
| **5** | 1750 | 208-230/460 | 14.2-12.8/6.4 | 1.15 | 184JP | **CP033** | E+3(NP) | F | 20.46 | 89.5 | |
| **5** | 1750 | 208-230/460 | 14.2-12.8/6.4 | 1.15 | 184JM | **CP030** | E+ | F | 17.37 | 87.5 | |
| **5** | 1750 | 208-230/460 | 14.2-12.8/6.4 | 1.15 | 184JP | **CP031** | E+ | F | 20.46 | 87.5 | |
| **5** | 1750 | 575 | 5.1 | 1.15 | 184JM | **CP034** | E+3(NP) | F | 17.37 | 89.5 | |
| **5** | 1750 | 575 | 5.2 | 1.15 | 184JP | **CP035** | E+3(NP) | F | 20.46 | 89.5 | |
| **7.5** | 3500 | 208-230/460 | 19.9-18.0/9.0 | 1.15 | 184JM | **CP042** | E+ | F | 17.37 | 86.5 | |
| **7.5** | 3500 | 208-230/460 | 9.0 | 1.15 | 184JP | **CP043** | E+ | F | 20.46 | 88.5 | |
| **7.5** | 3500 | 208-230/460 | 19.0-17.0/8.5 | 1.15 | 184JM | **CP045** | E+3(NP) | F | 17.37 | 88.5 | |
| **7.5** | 3500 | 208-230/460 | 19.9-18.0/9.0 | 1.15 | 184JP | **CP044** | E+3(NP) | F | 20.46 | 88.5 | |
| **7.5** | 1750 | 208-230/460 | 21.0-19.2/9.6 | 1.15 | 213JM | **E368M2** | E+ | F | 20.41 | 91 | |
| **7.5** | 1750 | 208-230/460 | 21.0-19.2/9.6 | 1.15 | 213JP | **E369M2** | E+ | F | 24.28 | 91 | |
| **10** | 3500 | 208-230/460 | 26.0-23.4/11.7 | 1.15 | 213JM | **E371M2** | E+ | F | 19.16 | 89.5 | |
| **10** | 3500 | 208-230/460 | 26.0-23.4/11.7 | 1.15 | 213JP | **E372M2** | E+ | F | 23.03 | 89.5 | |
| **10** | 1750 | 208-230/460 | 27.0-25.0/12.5 | 1.15 | 215JM | **E374M2** | E+ | F | 20.41 | 91.7 | |
| **10** | 1750 | 208-230/460 | 26.9-25.0/12.5 | 1.15 | 215JM | **CP046** | E+3(NP) | F | 19.22 | 91.7 | |
| **10** | 1750 | 208-230/460 | 27.0-25.0/12.5 | 1.15 | 215JP | **E375M2** | E+ | F | 24.28 | 91.7 | |
| **15** | 350 | 230/460 | 34.0/17.0 | 1.15 | 215JM | **E377M2** | E+ | F | 20.41 | 90.2 | |
| **15** | 3500 | 230/460 | 34.0/17.0 | 1.15 | 215JP | **E378E** | E+ | F | 24.28 | 90.2 | |
| **15** | 1750 | 230/460 | 37.0/18.5 | 1.15 | 254T | **E482M2** | E+ | F | 23.6 | 91 | |
| **15** | 1750 | 208-230/460 | 37.0/18.5 | 1.15 | 254JP | **E483M2** | E+ | F | 26.48 | 91 | |
| **20** | 1750 | 230/460 | 49.6/24.8 | 1.15 | 256JM | **E488M2** | E+ | F | 23.6 | 91 | |
| **20** | 1750 | 230/460 | 49.6/24.8 | 1.15 | 256JP | **E489M2** | E+ | F | 26.48 | 91 | |
| **25** | 3500 | 230/460 | 59.0/29.5 | 1.15 | 256JM | **E491M2** | E+ | F | 23.6 | 91 | |
| **25** | 3520 | 230/460 | 59.0/29.5 | 1.15 | 256JP | **E492M2** | E+ | F | 26.48 | 91 | |



## Types JM, JP – Three-Phase – Horizontal – TEFC – Rigid Base – Cast Iron Frame
## 3600 and 1800 RPM – 60 Hz – 1 thru 50 HP – CE, CSA, UL Approvals

CPE12

### Features:

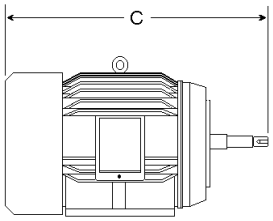
- Ball Bearings
- External Slinger
- 60 Hz
- 40°C Ambient
- Oversized Locked Shaft End Bearing
- Frame Suffix Letters JM and JP Designate NEMA Standard Motors

**Applications:** Designed for the specific requirements of centrifugal pumps.

| HP | RPM | Volts | Full Load Amps | Service Factor | Frame | Stock Number | Type | Insulation Class | Cast Iron | "C" Dim. | Efficiency | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | 3500 | 208-230/460 | 2.9-2.6/1.3 | 1.15 | 143JM | **CPE12** | E+ | F | √ | 15.75 | 75.5 | 361,363 |
| **1** | 3500 | 208-230/460 | 2.9-2.6/1.3 | 1.15 | 143JP | **CPE13** | E+ | F | √ | 18.7 | 75.5 | 361,363 |
| **1** | 1750 | 208-230/460 | 3.2/1.6 | 1.15 | 143JM | **N149E** | E+ | B | | 16.0 | 84.0 | |
| **1** | 1750 | 208-230/460 | 3.1-2.8/1.4 | 1.15 | 143JM | **CPE10** | E+ | F | √ | 15.75 | 82.5 | 361,363 |
| **1** | 1750 | 208-230/460 | 3.1-2.8/1.4 | 1.15 | 143JP | **CPE11** | E+ | F | √ | 18.7 | 82.5 | 361,363 |
| **1.5** | 3500 | 208-230/460 | 4.0/2.0 | 1.15 | 143JM | **N148E** | E+ | B | | 16.0 | 82.5 | |
| **1.5** | 3500 | 208-230/460 | 4.4-4.0/2.0 | 1.15 | 143JM | **CPE16** | E+ | F | √ | 15.75 | 82.5 | 361,363 |
| **1.5** | 3500 | 208-230/460 | 4.4-4.0/2.0 | 1.15 | 143JP | **CPE17** | E+ | F | √ | 18.7 | 82.5 | 361,363 |
| **1.5** | 1750 | 208-230/460 | 4.0/2.0 | 1.15 | 145JM | **N161E** | E+ | B | | 14.6 | 84.0 | |
| **1.5** | 1750 | 208-230/460 | 4.3-3.90/1.95 | 1.15 | 145JM | **CPE14** | E+ | F | √ | 16.75 | 84.0 | 361,363 |
| **1.5** | 1750 | 208-230/460 | 4.3-3.90/1.95 | 1.15 | 145JP | **CPE15** | E+ | F | √ | 19.7 | 84.0 | 361,363 |
| **2** | 3500 | 208-230/460 | 15.4/2.7 | 1.15 | 145JM | **N153E** | E+ | B | | 16.0 | 84.0 | |
| **2** | 3500 | 208-230/460 | 5.4-4.9/2.45 | 1.15 | 145JM | **CPE20** | E+ | F | √ | 16.75 | 84.0 | 361,363 |
| **2** | 3500 | 208-230/460 | 5.4-4.9/2.45 | 1.15 | 145JP | **CPE21** | E+ | F | √ | 19.7 | 84.0 | 361,363 |
| **2** | 1750 | 208-230/460 | 5.6-5.1/2.55 | 1.15 | 145JM | **CPE18** | E+ | F | √ | 16.75 | 84.0 | 361,363 |
| **2** | 1750 | 208-230/460 | 5.6-5.1/2.55 | 1.15 | 145JP | **CPE19** | E+ | F | √ | 19.7 | 84.0 | 361,363 |
| **3** | 3500 | 208-230/460 | 8.2/4.1 | 1.15 | 145JP | **N157E** | E+ | B | | 17.5 | 85.5 | |
| **3** | 3500 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JM | **CPE25** | E+ | F | √ | 18.95 | 85.5 | 361,363 |
| **3** | 3500 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JM | **CPE24** | E+ | F | √ | 17.53 | 85.5 | 361,363 |
| **3** | 1750 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JP | **CPE23** | E+ | F | √ | 18.95 | 87.5 | 361,363 |
| **3** | 1750 | 208-230/460 | 8.4-7.6/3.8 | 1.15 | 182JM | **CPE22** | E+ | F | √ | 17.53 | 87.5 | 361,363 |
| **5** | 3500 | 208-230/460 | 13.27-12/6 | 1.15 | 184JM | **CPE28** | E+ | F | √ | 18.52 | 87.5 | 361,363 |
| **5** | 3500 | 208-230/460 | 13.27-12/6 | 1.15 | 184JP | **CPE29** | E+ | F | √ | 19.94 | 87.5 | 361,363 |
| **5** | 1750 | 208-230/460 | 13.7-12.4/6.2 | 1.15 | 184JP | **CPE27** | E+ | F | √ | 19.94 | 87.5 | 361,363 |
| **5** | 1750 | 208-230/460 | 13.7-12.4/6.2 | 1.15 | 184JM | **CPE26** | E+ | F | √ | 18.52 | 87.5 | 361,363 |
| **7.5** | 3500 | 208-230/460 | 11.5 | 1.15 | 213JM | **CPE32** | E+ | F | √ | 19.78 | 88.5 | 362,363 |
| **7.5** | 3500 | 208-230/460 | 11.5 | 1.15 | 213JP | **CPE33** | E+ | F | √ | 23.67 | 88.5 | 362,363 |
| **7.5** | 3500 | 575 | 9.2 | 1.15 | 213JP | **CPE34** | E+ | F | √ | 19.78 | 87.5 | |
| **7.5** | 1750 | 208-230/460 | 9.5 | 1.15 | 213JP | **CPE31** | E+ | F | √ | 23.67 | 89.5 | 362,363 |
| **7.5** | 1750 | 208-230/460 | 9.5 | 1.15 | 213JM | **CPE30** | E+ | F | √ | 19.78 | 89.5 | 362,363 |

**Notes:**
361. 9 lead
362. 12 lead – Capability for Y Start-Delta Run
363. Double shielded bearings with no regreasing provisions

*Motors specially designed, tested and warranted to be **Corona-Free** for compatible inverter duty are marked on this page with E+ or E+3. See page 36 and 37 of this catalog for more Speed Engineered® motors information.*



# Century® Industrial Close-Coupled Pump Motors

## Types JM, JP - Three Phase - Horizontal - TEFC - Rigid Base - Cast Iron Frame
## 3600 and 1800 RPM - 60 HZ - 10 thru 50 HP - CE, CSA, UL Approvals

CPE37

### Features:

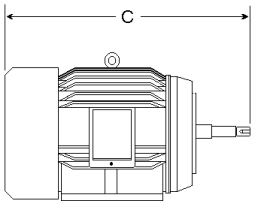
- Ball Bearing
- 40°C Ambient
- 60 Hz
- External Slinger
- Oversized, Locked Shaft End Bearing
- Frame Suffix Letters JM and JP Designate NEMA Standard Motors

**Applications:** Designed for the specific requirements of centrifugal pumps.

| HP | RPM | Volts | Full Load Amps | Service Factor | Frame | Stock Number | Type | Insulation Class | Cast Iron | "C" Dim. | Efficiency | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **10** | 3500 | 208-230/460 | 17.5 | 1.15 | 215JM | **CPE37** | E+ | F | √ | 21.35 | 89.5 | 361,363 |
| **10** | 3500 | 208-230/460 | 17.5 | 1.15 | 215JP | **CPE38** | E+ | F | √ | 25.24 | 89.5 | 362,363 |
| **10** | 3500 | 575 | 14 | 1.15 | 215JM | **CPE39** | E+ | F | √ | 21.35 | 89.5 | |
| **10** | 1750 | 208-230/460 | 12.5 | 1.15 | 215JP | **CPE36** | E+ | F | √ | 25.24 | 89.5 | 362,363 |
| **10** | 1750 | 208-230/460 | 12.5 | 1.15 | 215JM | **CPE35** | E+ | F | √ | 21.35 | 89.5 | 362,363 |
| **15** | 3500 | 208-230/460 | 17.5 | 1.15 | 254JM | **CPE42** | E+ | F | √ | 26.6 | 90.2 | 362,364 |
| **15** | 3500 | 208-230/460 | 17.5 | 1.15 | 254JP | **CPE43** | E+ | F | √ | 26.6 | 90.2 | 362,364 |
| **15** | 3500 | 575 | 14 | 1.15 | 254JM | **CPE44** | E+ | F | √ | 26.6 | 90.2 | |
| **15** | 1750 | 208-230/460 | 19 | 1.15 | 254JM | **CPE40** | E+ | F | √ | 26.6 | 91.0 | 362,364 |
| **15** | 1750 | 208-230/460 | 19 | 1.15 | 254JP | **CPE41** | E+ | F | √ | 29.51 | 91.0 | 362,364 |
| **20** | 3500 | 208-230/460 | 28.5 | 1.15 | 256JM | **CPE47** | E+ | F | √ | 27.8 | 90.2 | 362,364 |
| **20** | 3500 | 208-230/460 | 28.5 | 1.15 | 256JP | **CPE48** | E+ | F | √ | 30.71 | 90.2 | 362,364 |
| **20** | 3500 | 575 | 22.8 | 1.15 | 256JM | **CPE49** | E+ | F | √ | 27.8 | 90.2 | |
| **20** | 1750 | 208-230/460 | 24.5 | 1.15 | 256JP | **CPE46** | E+ | F | √ | 30.71 | 91.0 | 362,364 |
| **20** | 1750 | 208-230/460 | 24.5 | 1.15 | 256JM | **CPE45** | E+ | F | √ | 27.8 | 91.0 | 362,364 |
| **25** | 3500 | 208-230/460 | 34 | 1.15 | 284JM | **CPE52** | E+ | F | √ | 30.92 | 91.0 | 362,364 |
| **25** | 3500 | 208-230/460 | 34 | 1.15 | 284JP | **CPE53** | E+ | F | √ | 33.82 | 91.0 | 362,364 |
| **25** | 3500 | 575 | 27.2 | 1.15 | 284JM | **CPE54** | E+ | F | √ | 30.92 | 91.0 | |
| **25** | 1750 | 208-230/460 | 31 | 1.15 | 284JM | **CPE50** | E+ | F | √ | 30.92 | 92.4 | 362,364 |
| **25** | 1750 | 208-230/460 | 31 | 1.15 | 284JP | **CPE51** | E+ | F | √ | 33.82 | 92.4 | 362,364 |
| **30** | 3500 | 208-230/460 | 45 | 1.15 | 286JM | **CPE57** | E+ | F | √ | 32.1 | 91.0 | 362,364 |
| **30** | 3500 | 208-230/460 | 45 | 1.15 | 286JP | **CPE58** | E+ | F | √ | 35 | 91.0 | 362,364 |
| **30** | 3500 | 575 | 36 | 1.15 | 286JM | **CPE59** | E+ | F | √ | 32.1 | 91.0 | |
| **30** | 1750 | 208-230/460 | 37 | 1.15 | 286JM | **CPE55** | E+ | F | √ | 32.1 | 92.4 | 362,364 |
| **30** | 1750 | 208-230/460 | 37 | 1.15 | 286JP | **CPE56** | E+ | F | √ | 35 | 92.4 | 362,364 |
| **40** | 3500 | 208-230/460 | 56.5 | 1.15 | 324JM | **CPE62** | E+ | F | √ | 32.93 | 91.7 | 362,364 |
| **40** | 3500 | 208-230/460 | 56.5 | 1.15 | 324JP | **CPE63** | E+ | F | √ | 35.81 | 91.7 | 362,364 |
| **40** | 1750 | 208-230/460 | 47.5 | 1.15 | 324JM | **CPE60** | E+ | F | √ | 32.93 | 93.0 | 362,364 |
| **40** | 1750 | 208-230/460 | 47.5 | 1.15 | 324JP | **CPE61** | E+ | F | √ | 35.81 | 93.0 | 362,364 |
| **50** | 3500 | 208-230/460 | 67 | 1.15 | 326JM | **CPE66** | E+ | F | √ | 34.11 | 92.4 | 362,364 |
| **50** | 3500 | 208-230/460 | 167 | 1.15 | 326JP | **CPE67** | E+ | F | √ | 36.99 | 92.4 | 362,364 |
| **50** | 3500 | 575 | 53.6 | 1.15 | 326JM | **CPE68** | E+ | F | √ | 34.11 | 92.4 | |
| **50** | 1750 | 208-230/460 | 59 | 1.15 | 326JM | **CPE64** | E+ | F | √ | 34.11 | 93.0 | 362,364 |
| **50** | 1750 | 208-230/460 | 59 | 1.15 | 326JP | **CPE65** | E+ | F | √ | 36.99 | 93.0 | 362,364 |

**Notes:**
361. 9 lead
362. 12 lead – Capability for Y Start-Delta Run
363. Double shielded bearings with no regreasing provisions
364. Open bearings with regreasing provisions

*Motors specially designed, tested and warranted to be **Corona-Free** for compatible inverter duty are marked on this page with E+ or E+3. See page 36 and 37 of this catalog for more Speed Engineered ® motors information.*



## Types JM, JP and TCZ – Single-Phase – Horizontal – Dripproof – Rigid Base
## 3600 and 1800 RPM – 1 thru 10 HP – 1.15 Service Factor
## Ball Bearings - Class B Insulation

P137

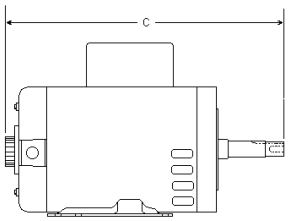
### Features:

- Double Sealed Ball Bearings
- External Slinger
- Reversible
- ODP Enclosure
- 60 Hz
- 40°C Ambient
- Class B Insulation
- Oversized, Locked Shaft End Bearing
- Frame Suffix Letters JM and JP Designate NEMA Standard Motors
- Frame Suffix TCZ Designates Century West Coast Pump Standard Motors

**Applications:** Designed for the specific requirements of centrifugal pumps.

| HP | RPM | Volts | Full Load Amps | Service Factor | Frame | Stock Number | Enclosure | Insulation Class | Protector | "C" Dim. | Efficiency | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1** | 1745 | 115/230 | 15.0/7.5 | 1.15 | 143JM | **P121** | ODP | B | None | 15.6 | | 21 |
| **1** | 1745 | 115/230 | 15.0/7.5 | 1.15 | 143JP | **P126** | ODP | B | None | 18.6 | | 21 |
| **1.5** | 3450 | 115/230 | 16.0/8.0 | 1.15 | 143JM | **P122** | ODP | B | None | 15.6 | | 21 |
| **1.5** | 1725 | 115/230 | 15.0/7.5 | 1.15 | 145JM | **P123** | ODP | B | None | 16.3 | | 21 |
| **1.5** | 1745 | 115/230 | 18.0/9.0 | 1.15 | 145JP | **P128** | ODP | B | None | 18.6 | | 21 |
| **2** | 3450 | 115/230 | 19.2/9.6 | 1.15 | 145JM | **P124** | ODP | B | None | 15.5 | | 21 |
| **2** | 1745 | 115/230 | 20.4/10.2 | 1.15 | 182JM | **P137** | ODP | B | None | 16.3 | | 21 |
| **2** | 1750 | 115/230 | 25.0/12.5 | 1.15 | 182JM | **P228M2** | ODP | B | None | 16.0 | 72.5 | |
| **2** | 1750 | 115/230 | 25.0/12.5 | 1.15 | 182JP | **P232M2** | ODP | B | None | 18.9 | 72.5 | |
| **3** | 3450 | 230 | 13.4 | 1.15 | 182JM | **P130** | ODP | B | None | 16.1 | | 21 |
| **3** | 3450 | 230 | 13.4 | 1.15 | 182JP | **P131** | ODP | B | None | 19.4 | | 21 |
| **3** | 3500 | 115/230 | 34.0/17.0 | 1.15 | 182JM | **P229M2** | ODP | B | None | 16.0 | 72.0 | |
| **3** | 1750 | 115/230 | 34.0/17.0 | 1.15 | 184JM | **P230M2** | ODP | B | None | 17.0 | 77.0 | |
| **5** | 3450 | 230 | 20.0 | 1.15 | 184JM | **P140** | ODP | B | None | 17.1 | 83.9 | 160 |
| **5** | 3450 | 200 | 24.0 | 1.15 | 184JM | **P133** | ODP | B | None | 17.0 | | 21 |
| **5** | 3520 | 230 | 26.0 | 1.15 | 184JM | **P231M2** | ODP | B | None | 17.0 | 77.0 | |
| **5** | 3500 | 230 | 26.0 | 1.15 | 184JP | **P235M2** | ODP | B | None | 20.1 | 78.5 | |
| **5** | 3520 | 230 | 26.0 | 1.15 | 184TCZ | **P212M2** | ODP | B | None | 20.1 | 77.0 | |
| **5** | 1750 | 230 | 25.0 | 1.15 | 213JM | **P317M2** | ODP | B | None | 17.6 | 81.0 | |
| **5** | 1750 | 230 | 25.0 | 1.15 | 213JP | **P324M2** | ODP | B | None | 21.5 | 81.0 | |
| **5** | 1750 | 230 | 25.0 | 1.15 | 213TCZ | **P312M2** | ODP | B | None | 20.7 | 81.0 | |
| **7.5** | 3500 | 230 | 39.0 | 1.15 | 213JM | **P318M2** | ODP | B | None | 17.6 | 77.0 | |
| **7.5** | 3500 | 230 | 39.0 | 1.15 | 213JP | **P325M2** | ODP | B | None | 21.5 | 77.0 | |
| **7.5** | 3500 | 230 | 39.0 | 1.15 | 213TCZ | **P311M2** | ODP | B | None | 20.7 | 77.0 | |
| **7.5** | 1750 | 230 | 32.0 | 1.15 | 215JM | **P319M2** | ODP | B | None | 19.1 | 86.0 | |
| **7.5** | 1750 | 230 | 32.0 | 1.15 | 215JP | **P326M2** | ODP | B | None | 23.0 | 86.0 | |
| **7.5** | 1750 | 230 | 32.0 | 1.15 | 215TCZ | **P313M2** | ODP | B | None | 22.2 | 86.0 | |
| **10** | 3500 | 230 | 42.0 | 1.15 | 215JM | **P320M2** | ODP | B | None | 19.2 | 83.8 | |
| **10** | 3500 | 230 | 42.0 | 1.15 | 215JP | **P327M2** | ODP | B | None | 22.2 | 83.8 | |
| **10** | 3500 | 230 | 42.0 | 1.15 | 215TCZ | **P321M2** | ODP | B | None | 22.2 | 83.8 | |

**Notes:**
21. Terminal in bracket construction
160. Non-reversible, connected for CW facing end opposite shaft



*Motors specially designed, tested and warranted to be* **Corona-Free** *for compatible inverter duty are marked in this catalog with as E+ or E+3.*

**E-Plus®**
**Speed Engineered®**
**Inverter Duty Motor**

## Why Specify Speed Engineered® Inverter Duty Motors?

Variable frequency drives (VFDs), while offering advantages of greater control and energy savings to commercial and industrial motor users, can also cause premature winding failure in motors not designed specifically for inverter duty. Now Century engineers have developed a solid solution...Speed Engineered® Inverter Duty Motor.

Speed Engineered Inverter Duty Motors are specially designed and constructed to eliminate the destructive forces that can occur when motors are applied with drives. The Speed Engineered "Corona-Free" solution eliminates the causes of premature winding failure.

All Speed Engineered motors meet or exceed NEMA MG1-31 performance standards, in addition to carrying Century's Speed Engineered warranty for inverter duty applications.

## The Causes of Premature Motor Failure

Research we conducted identified why motors can fail when used with variable frequency drives under certain operating conditions. The results were published in a white paper, The Simple Truth About Motor/Drive Compatibility, which is available from Century. Our findings revealed that "corona" as well as other potential hazards, can materialize and eventually damage motors applied with a drive.

## What is Corona?

VFDs create high voltage pulses at the motor, especially when the motor and drive are separated by long power leads. Those high voltage pulses (or voltage spikes) develop voltage potential between adjacent conductors in the motor winding.

When the voltage generated in the air between the conductors is high enough, the air breaks down.

This breakdown is known as "corona." The discharge that is created forms ozone, which causes the motor's magnet wire insulation to disintegrate, causing premature failure.

This phenomenon has been around for a long time and affects a limited number of earlier vintage motor/drive applications. But with drives becoming more sophisticated, inverter switching rates increasing and the percentage of motors operating with drives growing rapidly, incidents of downtime are also growing, and corona is now getting a lot of attention in the motor/drive industry.

There are several techniques employed in the market to increase motor tolerance to corona. Although simpler and less costly, these practices are not always effective since corona is not cured...only bandaged. The only way to be sure the destructive efforts of corona will not compromise your motor/drive application is to eliminate corona altogether. This is easily accomplished by specifying Century Speed Engineered motors on your next project.

## What Makes Corona-Free Speed Engineered® Motors Best For Motor-Drive Compatibility?

There are several solutions to the problem of motor insulation stress caused by inverters. Rather than just squelching the voltage overshoot which leads to corona, as mentioned earlier, the preferred method and the approach used by Century is to design the motor to be corona free at expected peak voltage. We begin with a design premise of understanding the magnet wire corona inception voltage (CIV) and distribution of voltage in the motor.

From that, our design approach becomes simply to:

Choose a winding layout that minimizes the proximity voltage differences and reliably positions insulation materials to improve dielectrics above the threshold of corona…

You may recognize this as the design approach for any motor, regardless if it is line operated or driven by an inverter. The difference is that with an inverter you must anticipate a much higher peak voltage and the rapid rise times of these potentially harmful pulses.

At Century®, we build a motor able to withstand voltage peaks 3.5 times what is stated on the motor nameplate. Therefore we design additional insulation (tape, sleeving, phase paper, etc.) and strategically locate this added insulation in a manner that will yield the necessary protection against the high voltage pulses that may occur between magnet wire strands. This approach yields the desired design integrity.

All Speed Engineered® motors have been upgraded to now incorporate the MAX GUARD® insulation system. Combining corona-resistant magnet wire with a low stress winding layout and uncompromising quality standards, MAX GUARD® delivers long, dependable motor life under the adverse thermal and dielectric stresses imposed by IGBT-based variable frequency drives.

## Because Motor/Drive Applications Are so Varied, Century® Offers Two Distinct Families of Speed Engineered® Motors:

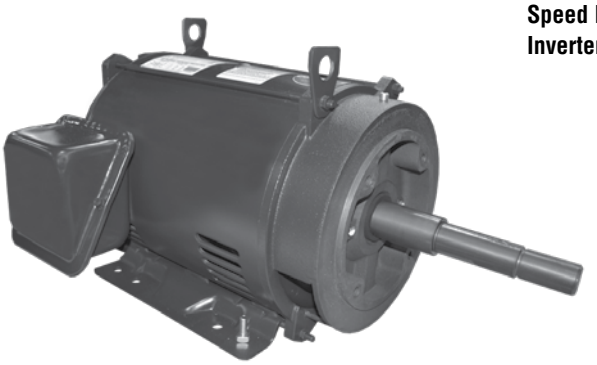
**E-Plus®** motors are the industry's first high efficiency, energy-saving motors, originally designed to meet the 1992 EPAct (Energy Policy Act of 1992) standards. With the expansion of the efficiency standards in EISA07 (Energy Independence and Security Act of 2007), E-Plus® motors now consist of motors previously exempt from the efficiency standards. In addition to their high efficiency, they carry the protection of the Speed Engineered® design and are warranted to offer the best performance available to inverter duty applications.

**E-Plus® 3** motors are designed to meet the higher efficiency requirements of EISA07, offering even heartier energy-efficient performance and savings. All E-Plus® 3 motors are Speed Engineered® rated for compatible inverter duty applications.

Both E-Plus® and E-Plus® 3 motors are available in a variety of application configurations including: variable or constant torque loads, PWM, sensorless or sensored vector and with limited or broad speed ranges.

Speed Engineered® motors are rated for 4:1 speed ratio at constant torque or 6:1 at variable torque.

**E-Plus® Motor**



**E-Plus® 3 Speed Engineered® Inverter Duty Motor**

# Index of Footnotes

| No. | Footnote Description |
|---|---|
| 1 | Item to be discontinued when stock is depleted |
| 2 | Ball Bearing |
| 3 | Special OEM replacement motor |
| 4 | Supplied with lead and plug assembly |
| 5 | $ Energy efficient two value capacitor start, capacitor run motor |
| 6 | 60/50 HZ |
| 7 | Resilient mounting rings included |
| 8 | Nema design A |
| 9 | Reversing plug |
| 10 | Reversible. Quick connect terminals |
| 11 | C Flange kit available |
| 12 | 303 Stainless steel shaft |
| 13 | Six lead motor suitable for part winding start |
| 14 | Totally enclosed non-ventilated |
| 15 | 56HZ = 7/8 keyed X 2 5/16 shaft |
| 16 | $ E-Plus energy efficient motor complying with EPact |
| 17 | Suitable for 208 volts @ 1.0 service factor |
| 18 | Includes 1/4 - 5/16 bushing |
| 19 | C & D flange kit available |
| 20 | $ Energy efficient capacitor start, capacitor run Conservationist motor |
| 21 | Terminal in bracket construction |
| 22 | 3 thru bolts, 4.42 dia. Bolt circle |
| 23 | Suitable for 200/400 volt and 50 HZ |
| 24 | Mounting accessories packaged with motor |
| 25 | Has hex mounting hub on both ends for cradle base mounting |
| 26 | Extended thru bolts, shaft end only |
| 27 | Extended thru bolts, both ends |
| 28 | Blower kit adaptable, TEFC |
| 29 | 60 degree C ambient |
| 30 | 56,140 frame combination base (12 mounting holes) |
| 31 | 40 degree C ambient |
| 32 | 24” leads (minimum) |
| 33 | Roller bearings |
| 34 | Rigid base |
| 35 | Quick connect design bracket |
| 36 | Lug mount |
| 37 | Lead reversible, no plug |
| 38 | Includes conduit box, mounting screws, gasket, shipped detached |
| 39 | Gasketed conduit box |
| 40 | Four mounting holes in shell |
| 41 | Extended thru bolts, lead end only |
| 42 | Eight mounting holes in shell |
| 43 | Class A insulation |
| 44 | CCWLE rotation only |
| 45 | Capacitor start |
| 46 | Adapt-a-Lug motors (See lugs) |
| 47 | 3/8 diameter shaft |
| 48 | 1.0 Service factor at 50 HZ |
| 49 | 1.0 Service factor |
| 50 | Use with 5MFD/370V @ 230 volt, 7.5MFD/370 volt @ 208 volt |
| 51 | Use downsize 250 Frame C & D flange kits (D-flange kit part # 800289-01, C-flange kit part # 800288-01 |
| 52 | Two-speed connection: white-common, red-low, black-high |
| 53 | Twelve lead, wye delta |
| 54 | Triple build wire for greater high voltage insulation |
| 55 | Terminal board |
| 56 | TEAO gasketed conduit box - 3/4 extended thru bolts |
| 57 | Tapped holes for Coleman mount |
| 58 | Supplied with resilient mounting rings |
| 59 | Suitable for use with low ambient speed control |
| 60 | Stock no. 1218A adapter and rings supplied for base mounting |
| 61 | Start capacitor inside |
| 62 | Split Phase |
| 63 | Speck pump replacement motor |
| 64 | Spade connector |
| 65 | Six lead, Wye Delta |
| 66 | Sealed switch design |
| 67 | Rewire for second speed |
| 68 | PSC motor |
| 69 | Pin hole in shaft |
| 70 | Permanent Split Capacitor |
| 71 | No hubs on either end |
| 72 | No brake kit available |
| 73 | No base |
| 74 | Nema design A available until current stock is depleted, then will become Nema design B |
| 75 | Mounting rings not included |
| 76 | Motors shipped with thru bolts out shaft end - See photos above. May be reversed for vertical applications |
| 77 | Molex Terminal Plug |
| 78 | Moderate start torque |
| 79 | Leadless design |
| 80 | Large capacitor/terminal box construction |
| 81 | Includes base |
| 82 | Horizontal mount only |
| 83 | Extended thru bolts - 5/8 |
| 84 | Energy efficient with split phase start, capacitor run with mounted capacitor |
| 85 | Energy efficient $ - capacitor start/run |
| 86 | Cord and plug with pull chain |
| 87 | Class F insulation |
| 88 | C & D flange kit adaptable, ODP, EMI Series 850000 |
| 89 | 60” leads |
| 90 | 50 degree C ambient |
| 91 | 5/8 extended thru bolts, 1 7/8 shaft length and 1/2 shaft dia. |
| 92 | 48/56 FR = 1/2 X 1 1/2 shaft with 5/8 shaft adapter - 48/56 slotted 3 height base |
| 93 | 36” cord |
| 94 | 30” leads (minimum) |
| 95 | 3/8 flatted shaft |
| 96 | 2 thru bolts, 4.42 dia. Bolt circle |
| 97 | 182T and 184T mounting holes, 4.5 shaft height |
| 98 | 1/2 hub on shaft end and slinger |
| 99 | 1/2 extended thru bolts, shaft end |
| 100 | 1/2 diameter shaft |
| 101 | 1.5 service factor |
| 102 | 1.15 service factor |
| 103 | When using U. E. base, add (2) 1221A adapter rings to EACH mounting ring |
| 104 | Vertical mount |
| 105 | Use with 1805A or 2099A bracket |
| 106 | Use 4MFD/370V capacitor |
| 107 | Uprated - low service factor |
| 108 | Two-speed motor |
| 109 | Two side bosses |
| 110 | Two mounting holes in each bracket for a 9 and for a 10.18 bolt circle |
| 111 | Totally enclosed version of OCC1026 |
| 112 | Totally enclosed fan cooled |
| 113 | Totally enclosed |
| 114 | Threaded shaft with Acme threads |
| 115 | This motor is rated for operation on 60 or 50 HZ power, full load amps listed at 60 HZ |
| 116 | Temperature sensitive thermostat with two leads for connection to external control |
| 117 | TEAO gasketed conduit box |
| 118 | TEAO |
| 119 | Suitable replacement for Aaon |
| 120 | Suitable replacement for 1/12 HP and 1/10 HP |
| 121 | Stronger 3/4 HP required for some applications |
| 122 | Stock number 91 has a stainless steel shaft and 20 leads for use on ice machines |
| 123 | Stock no. 684 BA dimension was 4, motors built after 4/98 will have a BA dim. Of 3 3/4 |
| 124 | Stainless steel shaft |
| 125 | Special pivot style rigid base |
| 126 | Special mounting bracket |
| 127 | Special Hayward replacement for SP-1515-Z24-EBK, EBKC, C48M2A16A1 |
| 128 | Special Doughboy replacement, less base, 40 degree C ambient, Al. Windings |
| 129 | Special Canadian motor, external relay is required |
| 130 | Sleeve bearing |
| 131 | Single flat on shaft |
| 132 | Shaft sleeve and key supplied for 5/8 diameter |
| 133 | Shaft N-W = 2.50 with two flats .04 deep, 2.16 long, 90 degrees apart |
| 134 | Shaft N-W = 2.50 with 5/8 diameter and keyway |
| 135 | Shaft has no flat |
| 136 | Shaft dim.= 9 X 1/2 X 8 1/2 |
| 137 | Shaft dim.= 8-1/2 X 1/2 X 9 1/8 |
| 138 | Shaft dim. = 9 X 1/2 X 7-1/2 |
| 139 | Shaft dim. = 10-3/4 X 1/2 X 10-15/16 |
| 140 | Shaft diameter is 1/2, N=2 |
| 141 | Shaft diameter is 1/2, N=1.94 with .04 deep flat |
| 142 | Service factor amps |
| 143 | Service factor 1.00 under inverter power (sine wave power only 60 HZ) as shown above |
| 144 | Service factor 1.0 used on non-sinusoidal voltage wave forms |
| 145 | Run capacitor mounted on motor shell |
| 146 | Round frame |
| 147 | Resilient mounting rings included for refrigeration applications |
| 148 | Replacement for Carrier HD52AK652 |
| 149 | Reconnect for separate speeds |
| 150 | Rated 50/60 HZ |
| 151 | Quick connect design bracket, auto overload protector |
| 152 | Pump series: L |
| 153 | Pump series: C |
| 154 | Previous stock numbers with X suffix are the same as current models |
| 155 | Polaris Vac-sweep (shaft adapter not required) |
| 156 | Open shaft end bracket |
| 157 | Open construction |
| 158 | Open motor construction, overload protector mounted at 12 O’clock |
| 159 | Open dripproof |
| 160 | Non-reversible, connected for CW facing end opposite shaft |
| 161 | No side bosses |
| 162 | No resilient rings. 12 leads with Molex terminal |
| 163 | No keyway, double flat |
| 164 | No hub on lead end end frame |
| 165 | No extended thru bolts |
| 166 | No conduit box |
| 167 | New Quad-Plus model - removable base (RMOV), vertical shaft up or down and steel frame construction |
| 168 | Nema 42/48 C-face, 1/2 diameter keyed shaft, 1 5/16 long |
| 169 | Motors produced before June, 2003 are E+ |
| 170 | Motors may be rewired to run CW |
| 171 | Motor is thermally protected |
| 172 | Motor is center mounted |
| 173 | Motor has 4 studs |
| 174 | Motor fits torque mount |
| 175 | Molex lead connection plug, 12 long leads |
| 176 | Moisture proof stator |
| 177 | Meets the requirements of the energy policy act of 1992 |
| 178 | Low speed 1/2 HP |
| 179 | Low amps |
| 180 | Low amp replacement for a variety of OEM Special and SPL 5 horsepower requirements |
| 181 | Loose lead construction |
| 182 | Locked bearing on drive end |
| 183 | Lifting provisions |
| 184 | Lead exit is on shaft end |
| 185 | Items with Universal and Century stock numbers and same specifications are identical. The Century stock numbers will be discontinued when stock is depleted. |
| 186 | Item to be discontinued when stock is depleted. Discontinued items available form Graham Transmission, Inc. |
| 187 | Incudes mounting bracket and shaft bushing |
| 188 | Includes split bushing and key for 5/8 shafts. 3 thru bolts on a 4.42 dia. Bolt circle |
| 189 | Includes split bushing and key for 5/8 shafts |
| 190 | Includes pilot light detector |
| 191 | Includes mounting bracket |
| 192 | Includes four (4) 10-32 mounting holes |
| 193 | Includes former GE brand equipment |
| 194 | Includes fan blade |
| 195 | Includes 6’ cord and switch |
| 196 | Includes 5/8 adapter and key |

# Index of Footnotes

| No. | Footnote Description |
|---|---|
| 197 | Includes 2 speed plug |
| 198 | Impedance protected |
| 199 | Horizontal rigid base |
| 200 | Has special 3.15 bolt circle |
| 201 | Four studs on a 5.15 diameter bolt circle |
| 202 | For motor only, use J375 |
| 203 | For motor only, use J373 |
| 204 | For motor only, use J372 |
| 205 | For motor only, use J370 |
| 206 | MasterFit motor, for additional information see page 73 |
| 207 | Fleximount arms are not attached to motor - bellyband with arms is packed with motor |
| 208 | Fits most 38GS Series |
| 209 | FB1106 & FR1106 also replaces motor used on Kramer Trenton units DD661, DD791 (use FR1106 for vertical applications |
| 210 | FB1076/FR1076 also replaces Kramer Trenton 045-004 and Universal HF3W0R8K, HF3W052N |
| 211 | FB1056 is the same as FB1056X |
| 212 | FB1056 also replaces Dunham Bush motor MTR-226 |
| 213 | Farm duty - gasketed conduit box and capacitor cover |
| 214 | F2 Assembly |
| 215 | Eyelet terminals on the leads |
| 216 | Equipped with rotation switch for easy reversibility |
| 217 | Equipped with provisions for mounting 4 X 4 conduit box |
| 218 | Energy efficient $ - split phase start/capacitor run |
| 219 | Dual voltage connection: black-common, white-120 volt, red-240 volt |
| 220 | Dripcover kit available (Part # 103017-03) |
| 221 | Does not have conduit box |
| 222 | Does not have aluminum adapter bracket |
| 223 | Direct replacement for Surge milk pumps, Babson motor #27732, requires 30MFD/370VAC capacitor, separately - not supplied |
| 224 | Direct replacement for GE WB26X24, WB26X40 and WB26X45 |
| 225 | Direct replacement for gaffer and sattler and dyna vent |
| 226 | Direct replacement for Carlin 27490S |
| 227 | Direct replacement for Beckett 21805U |
| 228 | CWSE not reversible |
| 229 | CWLE rotation |
| 230 | CSA approvable not applicable |
| 231 | Includes 8/32 mounting studs |
| 232 | Closed main frame, 2 1/2 rings, 14 leads |
| 233 | Class B insulation |
| 234 | Century nameplated product |
| 235 | Centurion II motors are switchless. Designed in a 48 frame shell diameter that is .80 inches smaller than the 56 frame Centurion and Centurion SE designs |
| 236 | CCW rotation facing opposite shaft end |
| 237 | Carrier replacement for HD60FK651, special BA dim. = 4.12 |
| 238 | Carrier replacement for HD60FK652, special BA dim. = 4.12 |
| 239 | Capacitor attached |
| 240 | Capacitor and rainshield included |
| 241 | Capacitor and rain shield included |
| 242 | BX connector |
| 243 | Base & clamp included, 9.44 ring to ring dimension |
| 244 | Ball/sleeve construction |
| 245 | Ball Bearing, for motor only, use J320 |
| 246 | B668 fits pump #LA01N manufactured March, 1997 to present |
| 247 | B667 fits pump #LA01 manufactured March, 1997 and prior |
| 248 | B14 mount |
| 249 | Arneson Pool Sweep |
| 250 | Also 1/10 Hp at 1050 RPM |
| 251 | All 1 HP and 1 1/2 HP motor supplied with conversion kit allowing motor to be used in most 56 frame applications |
| 252 | 8.5 foot conductor cord and plug with strain relief attached |
| 253 | 5/8" dia. keyed and flatted shaft 6" long |
| 254 | 8.26" bolt circle, .28" diameter mounting holes |
| 255 | 70 degree C ambient |
| 256 | 7-3/8" diameter bolt circle |
| 257 | 60 HZ only |
| 258 | 6 MFD/370V @ 230V, 8MFD/370V @ 280V |
| 259 | 575 volt brake coil |
| 260 | 56Z = 1/2" flatted shaft |
| 261 | 56Z = 1/2" flat X 1-1/2" shaft, 3 1/2 shaft height |
| 262 | 56Z = 1/2"' flat X 1.62" shaft, with 56 FR. Base |
| 263 | 53" leads |
| 264 | 50/60 HZ 1.4/1.7 Amps |
| 265 | 50 leads, 2 1/2 resilient rings |
| 266 | 50 HZ, 190/380 volt, 925 RPM |
| 267 | 50 HZ - 1.00 service factor, 190/380 volt |
| 268 | 50 HZ |
| 269 | 50 cycle only |
| 270 | 5/8 keyed shaft with flat |
| 271 | 5/8 keyed shaft |
| 272 | 5/16 diameter shaft |
| 273 | 48Z = 5/8 dia. X 2 shaft, with 3 height |
| 274 | 48Z = 1/2 flat X 1.88 shaft, with 48 FR base |
| 275 | 48-56 frame mounting - 3 shaft height, sleeve and key adapter to 5/8 shaft |
| 276 | 48-56 frame mounting - 3 1/2 shaft height, sleeve and key adapter to 5/8 shaft |
| 277 | 47" leads |
| 278 | 40" leads |
| 279 | 4 thru bolts and 4 dummy studs on a 5.16 diameter bolt circle |
| 280 | 4 in 1 multi-horsepower motor, replaces 1/3, 1/4, 1/5, 1/6 HP |
| 281 | 36" leads |
| 282 | 3450 RPM for 60 HZ and 2875 RPM for 50 HZ |
| 283 | 31" line leads, 5 capacitor leads |
| 284 | 31" leads (minimum) |
| 285 | 3/8-16, Left hand threads, CWPE rotation |
| 286 | 3.5 shaft height |
| 287 | 3 shaft height |
| 288 | 26" leads (minimum) |
| 289 | 12-1/4" leads |
| 290 | 230V and 208V connection, same torque |
| 291 | 208 Volt @ 1.0 Service factor |
| 292 | 20" leads |
| 293 | 9" leads |
| 294 | 2.6" shaft height |
| 295 | 2 shaft length and 1/2" shaft diameter, sleeve and key adapter to 5/8" |
| 296 | 2-Speed shipped less hi-lo switch for remote control |
| 297 | 184T base, 4.5 shaft height |
| 298 | 2-1/4 X 7/8 keyed shaft |
| 299 | 15" leads |
| 301 | 115 volt tap off main winding to power gear drive unit |
| 302 | 11" leads (minimum) |
| 303 | 11" leads |
| 304 | 10.19 bolt circle, .28 diameter mounting holes |
| 305 | 10-1/2" leads |
| 306 | 1/4-20 UNC-2B tapped holes on a 4.67 diameter bolt circle |
| 307 | 1/2" shaft, sleeve and key adapter to 5/8 shaft |
| 308 | 1/2" hub on shaft end frame with slinger. Grommet on lead exits. |
| 309 | 1/2" extended thru bolts |
| 310 | 1/2" double flat shaft, 2 1/2 rings |
| 311 | 1/2" dia. Shaft - single flat |
| 312 | 1.40 Service factor |
| 313 | 1" extended thru bolts each end |
| 314 | 1" extended thru bolts |
| 315 | 1-7/8" shaft end, 1/2 lead end extended thru bolts |
| 316 | 1-5/8" shaft end, 7/8 lead end extended thru bolts |
| 317 | 1-5/8" extended thru bolts |
| 318 | 1-1/2" extended thru bolts |
| 319 | C Dimension is the total length including shaft |
| 320 | 56Y = 7/8" diameter keyed shaft, 2.25 long |
| 321 | Bohn/Heatcraft mounting hardware and OEM fan blade included. |
| 322 | Mechanically Reversible |
| 323 | Kit includes three fans: 4" blade, 5.50" dia., CCW rot., 5" blade, 5.50" dia. CCW rot. 5" blade, 4.00" dia. CW rot. |
| 324 | Motor fits tongue mount |
| 325 | Can be mounted vertically by adding 10301702 cover (sold separately) |
| 326 | Cast Iron |
| 327 | Carrier Sensor Assembly (50HJ 401 484) not included |
| 328 | Square Frame |
| 329 | For use with adjustable base |
| 330 | 56Z = 1/2" shaft with flat, 1.62" long |
| 331 | Cannot be mounted with rings – ring to ring dimension is body length |
| 332 | No connector plug, leads only |
| 333 | Aluminum shell |
| 334 | Reversible |
| 335 | Energy Efficient, cap start, low speed, PSC high speed |
| 336 | Capacitor start, low speed, PSC high speed |
| 337 | Connection diagram may be #23, old #125 or new #125 depending on date of manufacture |
| 338 | Taco replacement |
| 339 | Armstrong replacement |
| 340 | Bell and Gosset replacement |
| 341 | 1/2" dia. - shaft 2.25" long |
| 342 | 5/8" dia. - shaft 2.37" long |
| 343 | 5/8" keyed shaft - 3.88" long |
| 344 | 5/8" keyed shaft - 2.31" long |
| 345 | Rigid base - wall mount |
| 346 | 65 degree C ambient |
| 347 | 3 thru bolts, 4.62 dia, bolt circle |
| 348 | 6-1/2" diameter body |
| 349 | 2-1/4" mounting rings |
| 350 | Conduit connector included |
| 351 | eMod equipped motor |
| 352 | Pentair, almond paint, direct replacement motor |
| 353 | 56Z = 5/8" diameter keyed shaft, 2-1/8" long |
| 354 | 56Z = 7/8" diameter keyed shaft, 2-1/4" long |
| 355 | Base 805C290H04 and Clamps 165B674A01 available |
| 356 | 3 rear mounting holes |
| 357 | 4 thru bolts, 4.42" dia. bolt circle |
| 358 | 4 thru bolts, on 4.62 dia. bolt circle |
| 359 | 4 studs with spacer and nut on a 3.87 diameter bolt circle |
| 360 | 4 thru bolts on a 5.15 dia. bolt circle |
| 361 | 9 leads |
| 362 | 12 lead – capability for Y Start-Delta Run |
| 363 | Double shielded bearings with no regreasing provisions |
| 364 | Open bearings with regreasing provisions |
| 365 | 3 leads |
| 366 | 6 leads |
| 367 | 12 leads |
| 368 | Inverter Duty |
| 369 | Automatic Protector |
| 370 | 48" leads |
| 371 | Removable 56H rigid base |
| 372 | VCM™ Feature (Voltage Change Module) |

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# Statement of Warranty Policy

### Warranty Period

All Century® motors are warranted against defects in materials and workmanship for a period of twelve (12) months from the date of installation or twenty-four months (24) from the date of manufacture, whichever comes first.

### Limitation of Remedy

In the event of a breach of the warranty within the applicable warranty period, Century shall have the option of (1) repairing such motor; (2) supplying an identical or substantially similar replacement motor FOB, Century's factory; or (3) refunding or giving credit for the purchase price of such motor.

The remedy set forth above shall be the sole and exclusive remedy for the motors failing within the applicable warranty period. Century, shall not be liable for any lost profits, loss of use, or any other consequential, special or incidental damages.

### DISCLAIMER OF IMPLIED WARRANTIES

EXCEPT AS MAY BE REQUIRED UNDER APPLICABLE LAW, THE LIMITED WARRANTY SET FORTH ABOVE IS THE EXCLUSIVE WARRANTY PROVIDED WITH THE MOTORS. ALL OTHER WARRANTIES, WHETHER WRITTEN OR VERBAL, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED BY CENTURY.

### Conditions of Warranty

This limited warranty shall be void and of no effect if:

1. The motor has been subjected to improper handling, storage or installation, or subject to abuse or unauthorized repairs;
2. The motor was not suitable for the application or operated above its rated load; or
3. The motor was subject to water damage including motor bearing failures resulting from pump seal failures.

### Authorized Location

Defective motors which have failed during the applicable warranty period must be returned freight prepaid to an Century's authorized distributor.
Call 800-672-6495.

# How to Read Date Codes on Motor Nameplates & Labels

**Introduction of a new standard date code was implemented in August of 2006 and is used on all Century product. The first three characters represent the day of the year, the next two the year, and the last two the plant code. For example, 123064M, would mean the 123rd day of 2006 (12306) manufactured in Century's plant (4M).**

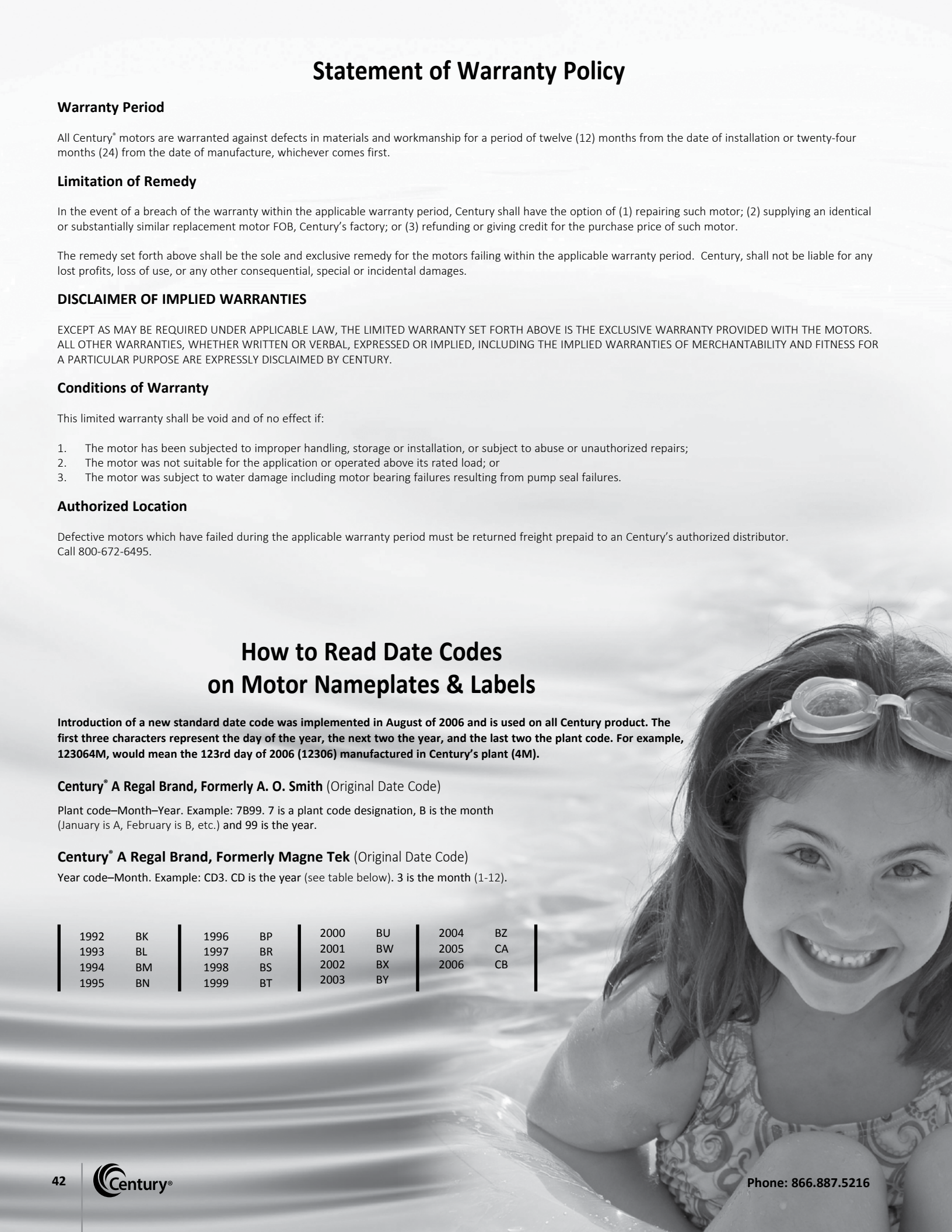
### Century® A Regal Brand, Formerly A. O. Smith (Original Date Code)

Plant code–Month–Year. Example: 7B99. 7 is a plant code designation, B is the month (January is A, February is B, etc.) and 99 is the year.

### Century® A Regal Brand, Formerly Magne Tek (Original Date Code)

Year code–Month. Example: CD3. CD is the year (see table below). 3 is the month (1-12).

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1992 | BK | 1996 | BP | 2000 | BU | 2004 | BZ |
| 1993 | BL | 1997 | BR | 2001 | BW | 2005 | CA |
| 1994 | BM | 1998 | BS | 2002 | BX | 2006 | CB |
| 1995 | BN | 1999 | BT | 2003 | BY | | |





Phone: 866.887.5216

# Centurion® PRO®

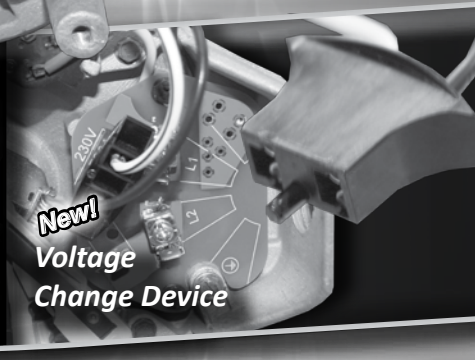
**PREMIUM POOL & SPA MOTORS**

*Built for Pool Professionals by Pool Professionals*

When it comes to durability, installer – friendly features, and overall ergonomics, no other replacement pump motor comes close to a superbly crafted Centurion® PRO pool and spa motor. In addition to the most reliable switch and governor in the industry and premium bearings on both the pump and lead ends of the motor, the innovative hybrid end frame design boasts a new PCB terminal board, voltage change device and a definitive shaft access path. The Centurion PRO design packs best-in-class features into a rugged, accessible layout that improves the installation experience.

***New!***
***Definitive Shaft Access***

***New!***
***Terminal Board & Lead Access***




***New!***
***Voltage Change Device***

# Premium Pool & Spa Motors

Professional Grade Single Speed

**Centurion® PRO**
PREMIUM POOL & SPA MOTORS

## FEATURES

- NEW – Hybrid end frame design
- NEW – PCB terminal board
- NEW – Voltage change device
- NEW – Definitive shaft access (7/16" wrench)
- Auto Protector
- "1081" Design
- 304 Bearing Shaft End
- Sealed Ball Bearings
- 60 Hz
- 50°C Ambient
- Rotation: CCW Pump End
- 303 Stainless Steel Threaded Shaft
- Open Dripproof

| THP | RPM | Volts | Amps | Service Factor | Frame | Flange | Centurion PRO Stock Number | Century Cross Reference | Nidec/U.S. Motors Cross Reference | SN Tech Cross Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.95 | 3450 | 115/230 | 12.2/6.1 | 1.0 | 48Y | Square | **HSQ095** | SQ1052<br>USQ1072 | ESQ1052<br>EUSQ1072 | C1304<br>C1244 |
| 1.25 | 3450 | 115/230 | 14.8/7.4 | 1.0 | 48Y | Square | **HSQ125** | SQ1072<br>USQ1102 | ESQ1072<br>EUSQ1102 | C1305<br>C1245 |
| 1.65 | 3450 | 115/230 | 18.8/9.4 | 1.0 | 48Y | Square | **HSQ165** | SQ1102<br>USQ1152 | ESQ1102<br>EUSQ1152 | C1306<br>C1246 |
| 2.20 | 3450 | 230 | 9.7 | 1.0 | 48Y | Square | **HSQ220** | SQ1152<br>USQ1202 | ESQ1152<br>EUSQ1202 | |
| 2.60 | 3450 | 230 | 11.4 | 1.0 | 48Y | Square | **HSQ260** | SQ1202<br>USQ1252 | ESQ1202<br>EUSQ1252 | C1308<br>C1335 |
| 0.80 | 3450 | 115/230 | 10.8/5.4 | 1.0 | 48Y | Square | **HST080** | ST1052<br>UST1072 | EST1052<br>EUST1072 | C1098<br>C1321 |
| 1.10 | 3450 | 115/230 | 13.6/6.8 | 1.0 | 56J | C-Face | **HST110** | ST1072<br>UST1102 | EST1072<br>EUST1102 | C1099<br>C1318 |
| 1.50 | 3450 | 115/230 | 17.2/8.6 | 1.0 | 56J | C-Face | **HST150** | ST1102<br>UST1152 | EST1102<br>EUST1152 | C1100<br>C1319 |
| 1.25 | 3450 | 115/208-230 | 20.4/10.9-10.2 | 1.0 | 56J | C-Face | **HST225** | ST1152<br>UST1202 | EST1152<br>EUST1202 | C1101<br>C1320 |
| 1.75 | 3450 | 208-230 | 12.3-11.3 | 1.0 | 56J | C-Face | **HST275** | ST1202<br>UST1252 | EST1202<br>EUST1252 | C1102<br>C1149 |

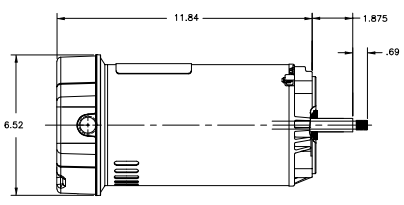
**Important:**

1. Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced.
2. The pool motors on this page are **NOT equipped with a Safety Vacuum Release System (SVRS)**. SVRS helps prevent drowning due to body entrapment on underwater drains. In some pool configurations, if a person's body covers the drain, the person can be trapped by suction. The SVRS turns off the pump if this occurs.

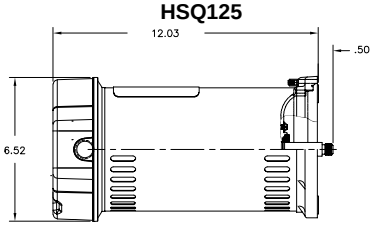
**⚠ WARNING**

Depending on your pool configuration, a SVRS may be required to meet local, state, and federal requirements.

**HST150**




**HSQ125**




**For more information, visit**

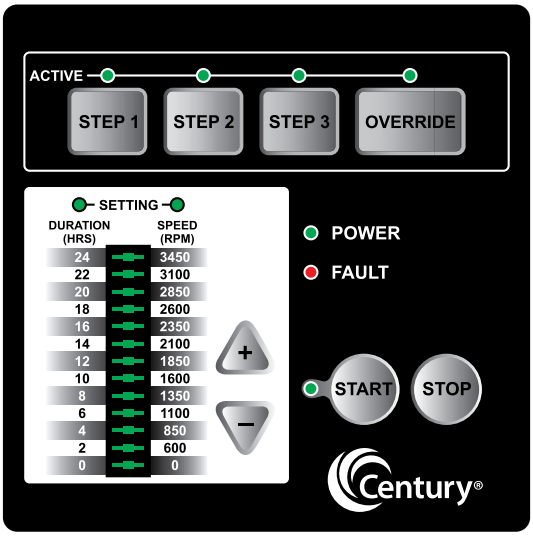
**www.pool-motors.com**

# VGreen® 165

Recognized as a leading supplier of electric motors to the leisure water industry, Century thrives on bringing innovative, high quality pool and spa replacement pump motors like the new VGreen 165 to market. The highly anticipated VGreen 165 variable speed motor joins a growing Century lineup of premium efficiency ECM replacement pump motors. Fully featured, the entry level VGreen 165 incorporates durable TEFC construction with ECM technology to deliver premium energy efficiency of over 80 percent versus a standard single speed motor. Now energy conscious pool owners have an affordable replacement pump motor option that delivers the performance they demand with the programming flexibility they desire.

## PROGRAMMING FLEXIBILITY

The VGreen 165 offers three variable speeds programmable from 600 to 3450 RPM, allowing users to easily identify and set the appropriate speeds to minimize energy consumption and lower the overall cost of pool ownership all while maintaining the proper pool environment. Pool size, the presence of additional water features, chemical maintenance needs, and environmental factors will impact the equation with every pool having unique requirements. The programming flexibility offered by the VGreen 165 makes it possible for pool owners to easily identify and adjust speed and duration settings necessary to maintain their pools and to maximize energy savings.




## REPLACEMENT VERSATILITY

Available in both square flange and C-face configurations, the highly versatile VGreen 165 motor can be utilized in pool pump applications ranging from 1/2 to 1.65 total horsepower. Installation on most pumps regardless of manufacturer is as simple as replacing a standard single speed motor, with no additional wiring or plumbing required thanks to the VGreen motor's integrated user interface. Equipped with digital inputs, the VGreen 165 motor is even compatible with third party pool automation systems.

## ADDITIONAL PREMIUM FEATURES & BENEFITS

| | |
|---|---|
| TEFC construction; UV/rain-proof enclosure | Premium construction for reliability and performance |
| Freeze protection | Automatic at 39°F (if motor turned on) |
| Reduced noise emissions | Meets FCC Part 15, Class B |
| Manual override | No need to adjust programmed settings |

**www.pool-motors.com**

## Try Saving Some Serious GREEN!

*Upgrade a pool motor now with the new VGreen 165 from Century®*

*and save up to* **80%** *on energy cost.*

Century®

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