

—  
PRODUCT BROCHURE

# VERTICAL HOLLOW SHAFT MOTORS

US DOE Compliant



- NEMA Premium efficient cast iron motors
- Designed for deep well vertical turbine pumps

ENGINEERED  
TO OUTRUN

**ABB's Vertical Hollow Shaft (VHS) motors are purpose-built for vertical turbine pump applications where performance, reliability and longevity are non-negotiable. Engineered with a compact, robust design and optimized for deep well pumping, these motors deliver smooth, efficient power transmission and minimal maintenance in the harshest environments.**

**With decades of innovation behind every unit, ABB VHS motors combine trusted durability with advanced engineering—driving water, energy and industry forward with confidence.**

# ABB VHS MOTORS

Efficient, reliable, easy-to-maintain performance

ABB is a trusted global supplier of NEMA Premium® efficiency vertical hollow shaft pump motors, serving OEMs, electric motor distributors, well drillers and municipalities. These inverter-duty motors are built for long-lasting performance, offering low vibration and dependable operation in demanding environments.



## Fit for purpose

- Designed for deep well vertical turbine applications, the coupling is at the top of the motor, which allows for easy access to shaft and impeller maintenance
- Machined for 175% extra high thrust capacity on 360 frames and above



## Drop-in design

- Drops into standard NEMA frame vertical hollow shaft motors



## Reliability

- UL listed
- Non-reverse ratchet (NRR) design that prohibits a motor and pump from spinning in opposite directions
- Double-stacked bearing for extra high thrust capacity on 440 frames and above



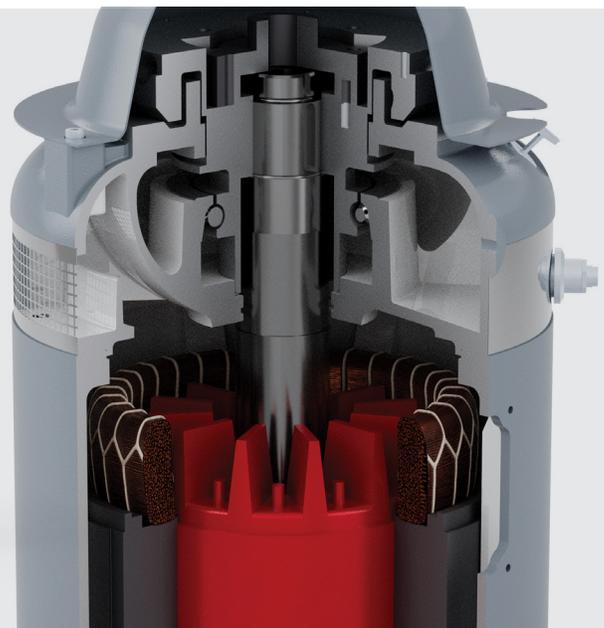
## Durability

- Heavy duty cast iron construction
- Class F insulation, Class B rise at full load
- Space heater for harsh environments



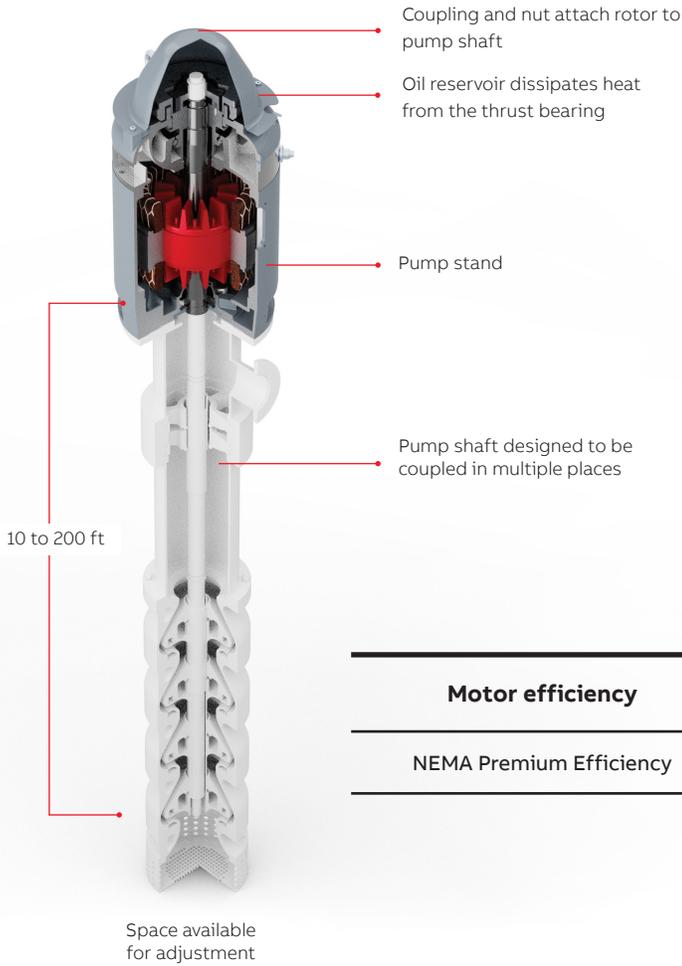
## User-friendly

- Motors suitable for part winding start or Wye-Delta start
- Lightweight top cover for easy maintenance
- Oversized conduit box
- Inverter duty per NEMA MG1



# A NEW ABB SOLUTION

Elevating your operations



**ABB's Vertical Hollow Shaft (VHS)** pump motors are engineered for high-performance, reliability and energy efficiency in demanding deep well pumping applications. Designed to meet the rigorous requirements of the water and wastewater, agricultural irrigation and industrial sectors, ABB VHS motors feature a robust construction with precision-balanced rotors and optimized ventilation for extended service life and reduced maintenance. The hollow shaft design allows for easy coupling with vertical turbine pumps, ensuring seamless power transmission and smooth operation.

With our commitment to sustainability and advanced motor technology, VHS motors deliver consistent torque, superior performance and energy savings in even the most challenging operating environments.

**UL Listed Vertical Pump Motors**

Our commitment to continual innovation and growth is reflected in our products.

| Motor efficiency        | Configuration | Hp range available           |                                     |
|-------------------------|---------------|------------------------------|-------------------------------------|
|                         |               | 6-Lead                       | 12-Lead                             |
| NEMA Premium Efficiency | 4-Pole        | Single volt 460<br>40 –500Hp | Dual volt 208-230/460<br>15 – 300Hp |

## DESIGNED WITH YOUR BUSINESS IN MIND

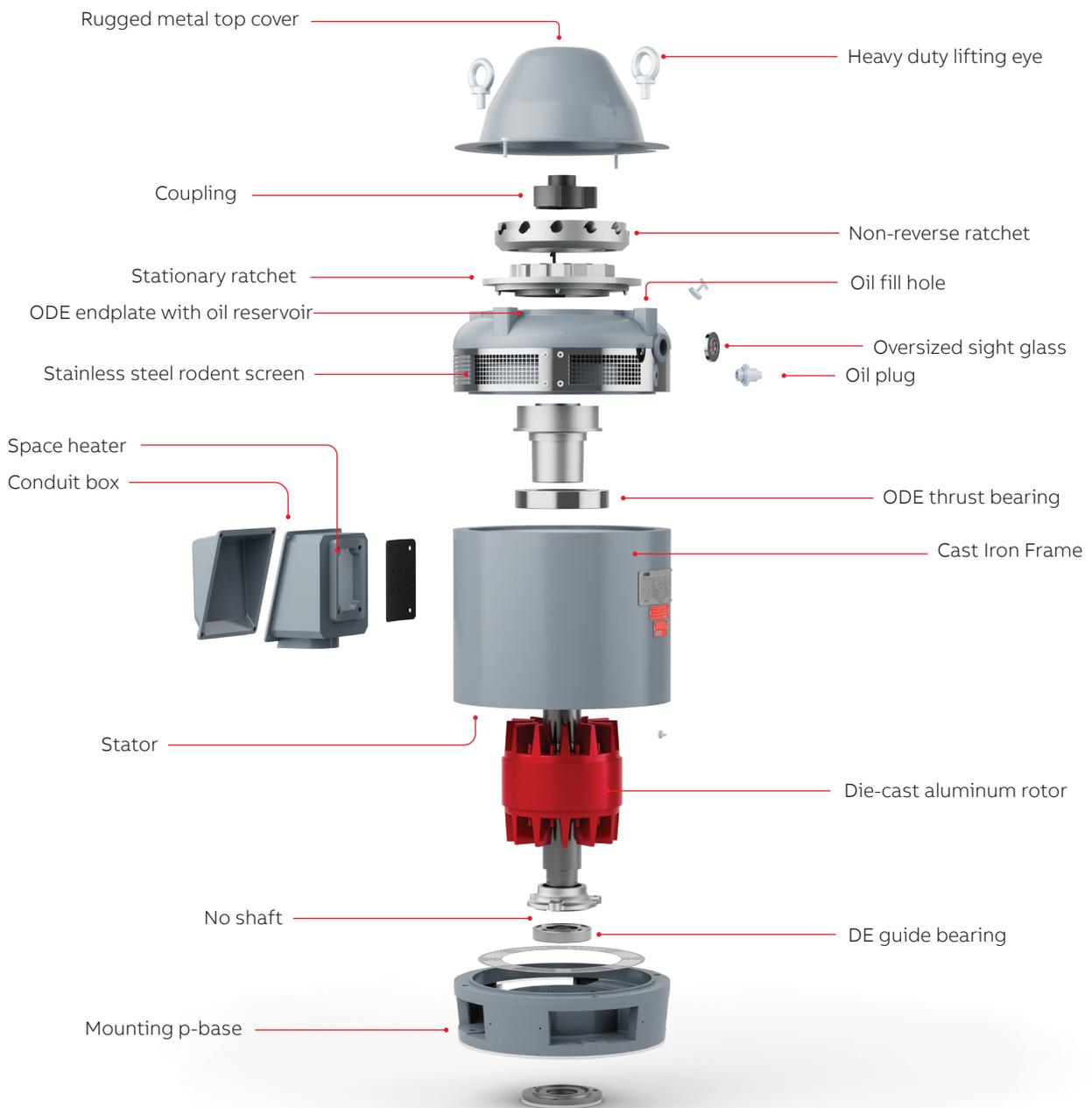
Used in various vertical pumping applications



# BUILT FOR POWER

Engineered to perform

Put your trust in a better-built motor. Demand quality construction, lower total cost of ownership and optimum efficiency from the motors that drive your business.



# RATINGS AND PERFORMANCE

WP1 Premium efficient, three phase



**Standard features**

- NEMA Premium efficient design
- Class F insulation, Class B rise at full load
- 1.15 service factor (sine wave power)
- Maximum 40°C ambient, 3300ft altitude
- Motors suitable for part winding start or Wye-Delta start
- NEMA Design B parameters with special balance
- Non-reverse ratchet (NRR)
- Polyurea grease drive end (DE) bearing
- PTC thermistors
- 120V space heaters

**Weather Protected Type 1 (WP1)**

- 4-Pole
- 15-500 Hp
- 250 - 5000 NEMA frame
- 60 Hz

**Options:**

- Modified P-Base
- Modified coupling
- Steady bushing
- 50 Hz

| Hp                   | RPM  | Frame | Catalog Number          | List Price (USD) | Aprx. Wt. (lb) | Full Load Eff. | Full Load Amps | Down-thrust (lbf) | P-base BD (in.) | CD Dim. (in.) | Cplg BX |
|----------------------|------|-------|-------------------------|------------------|----------------|----------------|----------------|-------------------|-----------------|---------------|---------|
| 230/460 volts, 60 Hz |      |       |                         |                  |                |                |                |                   |                 |               |         |
| 15                   | 1800 | 254TP | <b>4WPHS015PE25AA42</b> | 4,385            | 485            | 93.0           | 18.5           | 3300              | 10.00           | 23.38         | 1.00    |
|                      |      | 254TP | <b>4WPHS015PE25AB42</b> | 4,385            | 485            | 93.0           | 18.5           | 3300              | 12.00           | 23.38         | 1.00    |
|                      |      | 254TP | <b>4WPHS015PE25AC42</b> | 4,385            | 485            | 93.0           | 18.5           | 3300              | 16.50           | 23.38         | 1.00    |
| 20                   | 1800 | 256TP | <b>4WPHS020PE25AA42</b> | 4,821            | 507            | 93.3           | 24.5           | 3300              | 10.00           | 23.38         | 1.00    |
|                      |      | 256TP | <b>4WPHS020PE25AB42</b> | 4,821            | 507            | 93.3           | 24.5           | 3300              | 12.00           | 23.38         | 1.00    |
|                      |      | 256TP | <b>4WPHS020PE25AC42</b> | 4,821            | 507            | 93.3           | 24.5           | 3300              | 16.50           | 23.38         | 1.00    |
| 25                   | 1800 | 284TP | <b>4WPHS025PE28AA42</b> | 5,477            | 546            | 93.7           | 29.8           | 3300              | 10.00           | 24.75         | 1.00    |
|                      |      | 284TP | <b>4WPHS025PE28AB42</b> | 5,477            | 546            | 93.7           | 29.8           | 3300              | 12.00           | 24.75         | 1.00    |
|                      |      | 284TP | <b>4WPHS025PE28AC42</b> | 5,477            | 546            | 93.7           | 29.8           | 3300              | 16.50           | 24.75         | 1.00    |
| 30                   | 1800 | 286TP | <b>4WPHS030PE28AA42</b> | 6,007            | 573            | 94.2           | 35.4           | 3300              | 10.00           | 24.75         | 1.00    |
|                      |      | 286TP | <b>4WPHS030PE28AB42</b> | 6,007            | 573            | 94.2           | 35.4           | 3300              | 12.00           | 24.75         | 1.00    |
|                      |      | 286TP | <b>4WPHS030PE28AC42</b> | 6,007            | 573            | 94.2           | 35.4           | 3300              | 16.50           | 24.75         | 1.00    |
| 40                   | 1800 | 324TP | <b>4WPHS040PE32AB42</b> | 6,665            | 725            | 94.2           | 48.4           | 5700              | 12.00           | 28.22         | 1.25    |
|                      |      | 324TP | <b>4WPHS040PE32AC42</b> | 6,665            | 725            | 94.2           | 48.4           | 5700              | 16.50           | 28.22         | 1.25    |
| 50                   | 1800 | 326TP | <b>4WPHS050PE32AB42</b> | 7,795            | 793            | 94.7           | 57.3           | 5700              | 12.00           | 28.22         | 1.25    |
|                      |      | 326TP | <b>4WPHS050PE32AC42</b> | 7,795            | 793            | 94.7           | 57.3           | 5700              | 16.50           | 28.22         | 1.25    |
| 60                   | 1800 | 364TP | <b>4WPHS060PE36AC42</b> | 9,094            | 926            | 95.1           | 67.8           | 5700              | 16.50           | 31.16         | 1.25    |
| 75                   | 1800 | 365TP | <b>4WPHS075PE36AC42</b> | 10,883           | 1010           | 95.3           | 85.1           | 5700              | 16.50           | 31.16         | 1.25    |
| 100                  | 1800 | 404TP | <b>4WPHS100PE40AC42</b> | 13,988           | 1422           | 95.5           | 113.8          | 6700              | 16.50           | 36.94         | 1.50    |

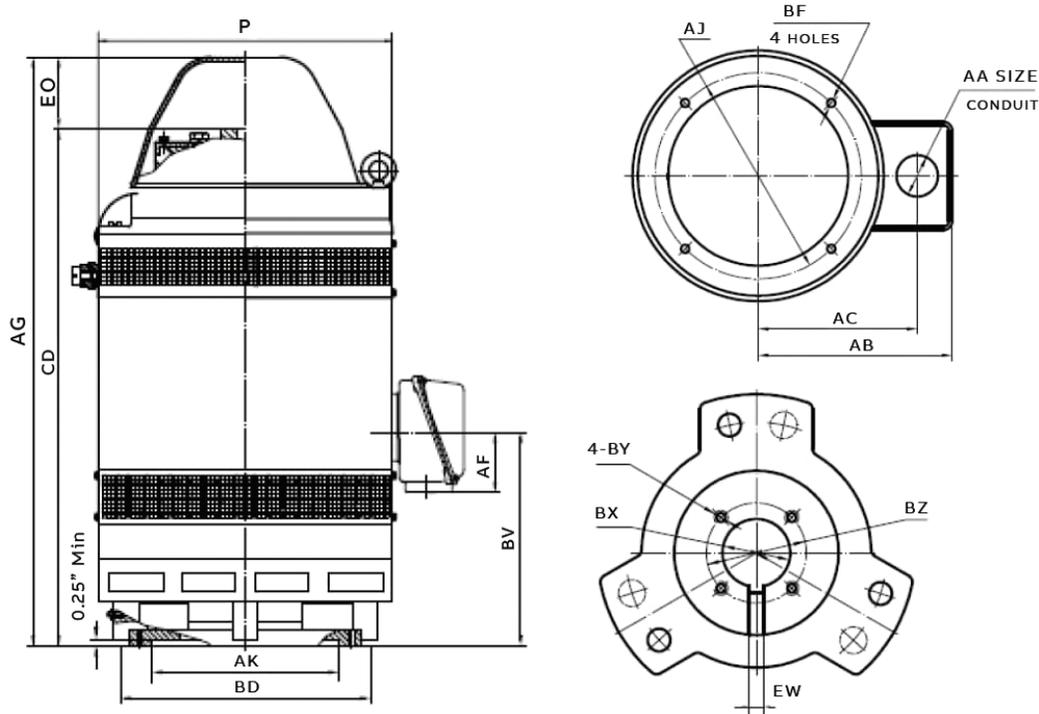
 Cast iron frame     **Red** catalog number indicates **NEW** product

| Hp                   | RPM  | Frame | Catalog Number          | List Price (USD) | Aprx. Wt. (lb) | Full Load Eff. | Full Load Amps | Down-thrust (lbf) | P-base BD (in.) | CD Dim. (in.) | Cplg BX |
|----------------------|------|-------|-------------------------|------------------|----------------|----------------|----------------|-------------------|-----------------|---------------|---------|
| 230/460 volts, 60 Hz |      |       |                         |                  |                |                |                |                   |                 |               |         |
| 125                  | 1800 | 405TP | <b>4WPHS125PE40AC42</b> | 17,290           | 1488           | 95.5           | 138.1          | 6700              | 16.50           | 36.94         | 1.50    |
| 150                  | 1800 | 444TP | <b>4WPHS150PE44AC42</b> | 22,565           | 1978           | 96.0           | 168.4          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 444TP | <b>4WPHS150PE44AD42</b> | 22,565           | 1978           | 96.0           | 168.4          | 15680             | 20.00           | 42.66         | 1.69    |
| 200                  | 1800 | 445TP | <b>4WPHS200PE44AC42</b> | 27,706           | 2038           | 96.2           | 220.6          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 445TP | <b>4WPHS200PE44AD42</b> | 27,706           | 2038           | 96.2           | 220.6          | 15680             | 20.00           | 42.66         | 1.69    |
| 250                  | 1800 | 445TP | <b>4WPHS250PE44AC42</b> | 33,948           | 2038           | 96.3           | 274.0          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 445TP | <b>4WPHS250PE44AD42</b> | 33,948           | 2038           | 96.3           | 274.0          | 15680             | 20.00           | 42.66         | 1.69    |
| 300                  | 1800 | 447TP | <b>4WPHS300PE44AC42</b> | 39,049           | 2468           | 96.5           | 341.6          | 15680             | 16.50           | 49.75         | 1.94    |
|                      |      | 447TP | <b>4WPHS300PE44AD42</b> | 39,049           | 2468           | 96.5           | 341.6          | 15680             | 20.00           | 49.75         | 1.94    |
| 460 volts, 60 Hz     |      |       |                         |                  |                |                |                |                   |                 |               |         |
| 40                   | 1800 | 324TP | <b>4WPHS040PE32AB46</b> | 6,665            | 725            | 94.2           | 48.4           | 5700              | 12.00           | 28.22         | 1.25    |
|                      |      | 324TP | <b>4WPHS040PE32AC46</b> | 6,665            | 725            | 94.2           | 48.4           | 5700              | 16.50           | 28.22         | 1.25    |
| 50                   | 1800 | 326TP | <b>4WPHS050PE32AB46</b> | 7,795            | 793            | 94.7           | 57.3           | 5700              | 12.00           | 28.22         | 1.25    |
|                      |      | 326TP | <b>4WPHS050PE32AC46</b> | 7,795            | 793            | 94.7           | 57.3           | 5700              | 16.50           | 28.22         | 1.25    |
| 60                   | 1800 | 364TP | <b>4WPHS060PE36AC46</b> | 9,094            | 926            | 95.1           | 67.8           | 5700              | 16.50           | 31.16         | 1.25    |
| 75                   | 1800 | 365TP | <b>4WPHS075PE36AC46</b> | 10,883           | 1010           | 95.3           | 85.1           | 5700              | 16.50           | 31.16         | 1.25    |
| 100                  | 1800 | 404TP | <b>4WPHS100PE40AC46</b> | 13,988           | 1422           | 95.5           | 113.8          | 6700              | 16.50           | 36.94         | 1.50    |
| 125                  | 1800 | 405TP | <b>4WPHS125PE40AC46</b> | 17,290           | 1488           | 95.5           | 138.1          | 6700              | 16.50           | 36.94         | 1.50    |
| 150                  | 1800 | 444TP | <b>4WPHS150PE44AC46</b> | 22,565           | 1978           | 96.0           | 168.4          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 444TP | <b>4WPHS150PE44AD46</b> | 22,565           | 1978           | 96.0           | 168.4          | 15680             | 20.00           | 42.66         | 1.69    |
| 200                  | 1800 | 445TP | <b>4WPHS200PE44AC46</b> | 27,706           | 2038           | 96.2           | 220.6          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 445TP | <b>4WPHS200PE44AD46</b> | 27,706           | 2038           | 96.2           | 220.6          | 15680             | 20.00           | 42.66         | 1.69    |
| 250                  | 1800 | 445TP | <b>4WPHS250PE44AC46</b> | 33,948           | 2038           | 96.3           | 274.0          | 15680             | 16.50           | 42.66         | 1.69    |
|                      |      | 445TP | <b>4WPHS250PE44AD46</b> | 33,948           | 2038           | 96.3           | 274.0          | 15680             | 20.00           | 42.66         | 1.69    |
| 300                  | 1800 | 447TP | <b>4WPHS300PE44AC46</b> | 39,049           | 2468           | 96.5           | 341.6          | 15680             | 16.50           | 49.75         | 1.94    |
|                      |      | 447TP | <b>4WPHS300PE44AD46</b> | 39,049           | 2468           | 96.5           | 341.6          | 15680             | 20.00           | 49.75         | 1.94    |
|                      |      | 5006P | <b>4WPHS300PE50AD46</b> | 41,398           | 3638           | 95.9           | 328.3          | 16480             | 20.00           | 49.75         | 1.94    |
|                      |      | 5006P | <b>4WPHS300PE50AE46</b> | 41,398           | 3638           | 95.9           | 328.3          | 16480             | 24.50           | 49.75         | 1.94    |
| 350                  | 1800 | 5006P | <b>4WPHS350PE50AD46</b> | 43,747           | 3638           | 96.1           | 379.1          | 16480             | 20.00           | 49.75         | 1.94    |
|                      |      | 5006P | <b>4WPHS350PE50AE46</b> | 43,747           | 3638           | 96.1           | 379.1          | 16480             | 24.50           | 49.75         | 1.94    |
| 400                  | 1800 | 5008P | <b>4WPHS400PE50AE46</b> | 53,731           | 4648           | 96.2           | 436.2          | 16480             | 24.50           | 53.88         | 2.19    |
| 450                  | 1800 | 5008P | <b>4WPHS450PE50AE46</b> | 58,174           | 4648           | 96.4           | 487.5          | 16480             | 24.50           | 53.88         | 2.19    |
| 500                  | 1800 | 5008P | <b>4WPHS500PE50AE46</b> | 66,464           | 4648           | 96.4           | 537.7          | 16480             | 24.50           | 53.88         | 2.19    |

Cast iron frame      **Red** catalog number indicates **NEW** product

# DIMENSIONS

WP1 Premium efficient, three phase



| Hp  | Frame | Mounting dimensions (in) |       |      |      |      |      |       |       |       |          |       | Overall dimensions (in) |     |      |      |      |      |
|-----|-------|--------------------------|-------|------|------|------|------|-------|-------|-------|----------|-------|-------------------------|-----|------|------|------|------|
|     |       | BD                       | AJ    | AK   | BF   | BV   | AF   | BX    | BZ    | EW    | BY       | CD    | EO                      | AA  | P    | AB   | AC   | AG   |
| 15  | 254TP | 10                       | 9.125 | 8.25 | 0.44 | 12.7 | 5.2  | 1     | 1.375 | 0.25  | 10 - 32  | 23.38 | 3.22                    | 1.5 | 16.1 | 14.1 | 11.2 | 28.1 |
| 20  | 256TP | 10                       | 9.125 | 8.25 | 0.44 | 12.7 | 5.2  | 1     | 1.375 | 0.25  | 10 - 32  | 23.38 | 3.22                    | 1.5 | 16.1 | 14.1 | 11.2 | 28.1 |
| 25  | 284TP | 10                       | 9.125 | 8.25 | 0.44 | 14.1 | 5.2  | 1     | 1.375 | 0.25  | 10 - 32  | 24.75 | 3.22                    | 1.5 | 16.1 | 14.1 | 11.2 | 29.5 |
| 30  | 286TP | 10                       | 9.125 | 8.25 | 0.44 | 14.1 | 5.2  | 1     | 1.375 | 0.25  | 10 - 32  | 24.75 | 3.22                    | 1.5 | 16.1 | 14.1 | 11.2 | 29.5 |
| 40  | 324TP | 16.5                     | 14.75 | 13.5 | 0.69 | 13.5 | 5.2  | 1.25  | 1.75  | 0.25  | 1/4 - 20 | 28.22 | 4.22                    | 3   | 17.3 | 14.8 | 11.8 | 32.7 |
| 50  | 326TP | 16.5                     | 14.75 | 13.5 | 0.69 | 13.5 | 5.2  | 1.25  | 1.75  | 0.25  | 1/4 - 20 | 28.22 | 4.22                    | 3   | 17.3 | 14.8 | 11.8 | 32.7 |
| 60  | 364TP | 16.5                     | 14.75 | 13.5 | 0.69 | 15.3 | 5.2  | 1.25  | 1.75  | 0.25  | 1/4 - 20 | 31.16 | 4.56                    | 3   | 19.1 | 15.6 | 12.6 | 36.0 |
| 75  | 365TP | 16.5                     | 14.75 | 13.5 | 0.69 | 15.3 | 5.2  | 1.25  | 1.75  | 0.25  | 1/4 - 20 | 31.16 | 4.56                    | 3   | 19.1 | 15.6 | 12.6 | 36.0 |
| 100 | 404TP | 16.5                     | 14.75 | 13.5 | 0.69 | 19.5 | 5.2  | 1.5   | 2.125 | 0.375 | 1/4 - 20 | 36.94 | 4.56                    | 3   | 21.0 | 16.9 | 13.6 | 42.2 |
| 125 | 405TP | 16.5                     | 14.75 | 13.5 | 0.69 | 19.5 | 5.2  | 1.5   | 2.125 | 0.375 | 1/4 - 20 | 36.94 | 4.56                    | 3   | 21.0 | 16.9 | 13.6 | 42.2 |
| 150 | 444TP | 16.5                     | 14.75 | 13.5 | 0.69 | 22.6 | 7.2  | 1.69  | 2.50  | 0.375 | 1/4 - 20 | 42.66 | 5                       | 3   | 23.2 | 20.6 | 15.6 | 47.7 |
| 200 | 445TP | 16.5                     | 14.75 | 13.5 | 0.69 | 22.6 | 7.2  | 1.69  | 2.50  | 0.375 | 1/4 - 20 | 42.66 | 5                       | 3   | 23.2 | 20.6 | 15.6 | 47.7 |
| 250 | 445TP | 16.5                     | 14.75 | 13.5 | 0.69 | 22.6 | 7.2  | 1.69  | 2.50  | 0.375 | 1/4 - 20 | 42.66 | 5                       | 3   | 23.2 | 20.6 | 15.6 | 47.7 |
| 300 | 447TP | 16.5                     | 14.75 | 13.5 | 0.69 | 29.7 | 7.2  | 1.94  | 2.50  | 0.50  | 1/4 - 20 | 49.75 | 5                       | 3.5 | 23.2 | 20.6 | 15.6 | 54.8 |
| 300 | 5006P | 24.5                     | 14.75 | 13.5 | 0.69 | 26.3 | 10.6 | 1.94  | 2.50  | 0.50  | 1/4 - 20 | 49.75 | 6                       | 3.5 | 26.8 | 22.2 | 18.5 | 56.1 |
| 350 | 5006P | 24.5                     | 14.75 | 13.5 | 0.69 | 26.3 | 10.6 | 1.94  | 2.50  | 0.50  | 1/4 - 20 | 49.75 | 6                       | 3.5 | 26.8 | 22.2 | 18.5 | 56.1 |
| 400 | 5008P | 24.5                     | 14.75 | 13.5 | 0.69 | 30.4 | 10.6 | 2.188 | 3.25  | 0.50  | 3/8 - 16 | 53.88 | 6                       | 3.5 | 26.8 | 22.2 | 18.5 | 60.2 |
| 450 | 5008P | 24.5                     | 14.75 | 13.5 | 0.69 | 30.4 | 10.6 | 2.188 | 3.25  | 0.50  | 3/8 - 16 | 53.88 | 6                       | 3.5 | 26.8 | 22.2 | 18.5 | 60.2 |
| 500 | 5008P | 24.5                     | 14.75 | 13.5 | 0.69 | 30.4 | 10.6 | 2.188 | 3.25  | 0.50  | 3/8 - 16 | 53.88 | 6                       | 3.5 | 26.8 | 22.2 | 18.5 | 60.2 |

# P-BASE OPTIONS

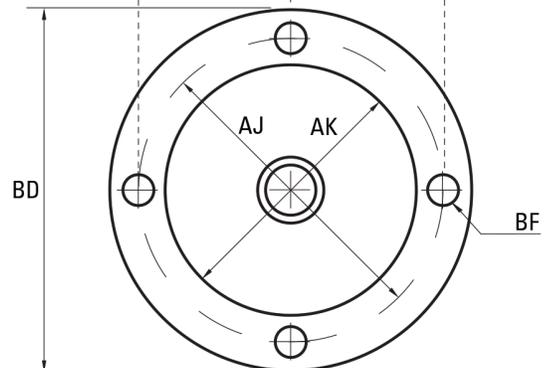
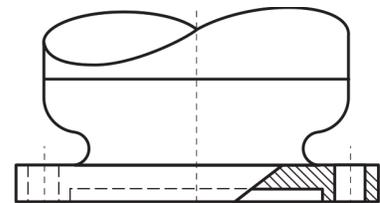
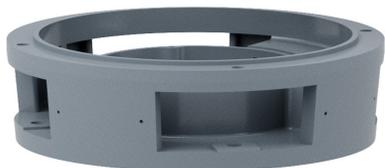
## WP1 flange

The following table shows the bases that fit each of the Hp/frame sizes. Proper alignment of pump flange and motor flange is critical. Small errors in alignment are magnified by the distance from the flange to the top of the motor, resulting in vibration, electrical noise, premature bearing wear and oil leakage.

| P-base options for WP1 Std |         |           |                         | P-Base Dimensions (in) |       |      |      |
|----------------------------|---------|-----------|-------------------------|------------------------|-------|------|------|
| Hp                         | Frame   | Base Size | Catalog number          | BD                     | AJ    | AK   | BF   |
| 15 - 30                    | 250/280 | 10        | <b>PBWP250/280-10</b>   | 10                     | 9.125 | 8.25 | 0.44 |
|                            |         | 12        | <b>PBWP250/280-12</b>   | 12                     | 9.125 | 8.25 | 0.44 |
|                            |         | 16.5      | <b>PBWP250/280-16.5</b> | 16.5                   | 14.75 | 13.5 | 0.69 |
| 40 - 50                    | 320     | 12        | <b>PBWP320-12</b>       | 12                     | 9.125 | 8.25 | 0.44 |
|                            |         | 16.5      | <b>PBWP320-16.5</b>     | 16.5                   | 14.75 | 13.5 | 0.69 |
| 60 - 75                    | 360     | 16.5      | <b>PBWP360-16.5</b>     | 16.5                   | 14.75 | 13.5 | 0.69 |
| 100 - 125                  | 400     | 16.5      | <b>PBWP400-16.5</b>     | 16.5                   | 14.75 | 13.5 | 0.69 |
| 150 - 350                  | 440     | 16.5      | <b>PBWP440-16.5</b>     | 16.5                   | 14.75 | 13.5 | 0.69 |
|                            |         | 20        | <b>PBWP440-20</b>       | 20                     | 14.75 | 13.5 | 0.69 |
| 300 - 500                  | 5000    | 20        | <b>PBWP5000-20</b>      | 24.5                   | 14.75 | 13.5 | 0.69 |
|                            |         | 24.5      | <b>PBWP5000-24.5</b>    | 24.5                   | 14.75 | 13.5 | 0.69 |

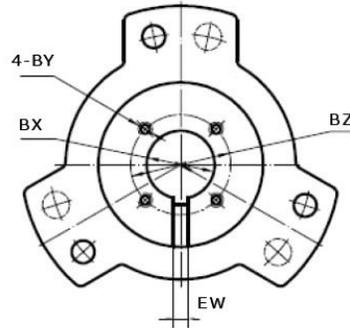
Indicates standard flange size

Red catalog number indicates **NEW** product



# COUPLING

## WP1 Coupling option



| Coupling options for WP1 |         |                    |                      | Coupling dimensions (in) |                |         |         |
|--------------------------|---------|--------------------|----------------------|--------------------------|----------------|---------|---------|
| Hp                       | Frame   | Bore size (BX nom) | Catalog number       | BX (Actual)              | BY (Bolt size) | BZ      | Sq. Key |
| 15 - 30                  | 250/280 | 1                  | <b>C250/280-1</b>    | 1.001                    | #10 - 32       | 1 - 3/8 | 1/4     |
|                          |         | 1-3/16             | <b>C250/280-1316</b> | 1.188                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/3              | <b>C250/280-114</b>  | 1.251                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
| 40 - 75                  | 320/360 | 1                  | <b>C320/360-1</b>    | 1.001                    | #10 - 32       | 1 - 3/8 | 1/4     |
|                          |         | 1-3/16             | <b>C320/360-1316</b> | 1.188                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/4              | <b>C320/360-114</b>  | 1.251                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/2              | <b>C320/360-112</b>  | 1.501                    | 1/4 - 20       | 2 - 1/8 | 3/8     |
| 100 - 125                | 400     | 1-3/16             | <b>C400-1316</b>     | 1.188                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/4              | <b>C400-114</b>      | 1.251                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/2              | <b>C400-112</b>      | 1.501                    | 1/4 - 20       | 2 - 1/8 | 3/8     |
|                          |         | 1-11/16            | <b>C400-11116</b>    | 1.688                    | 1/4 - 20       | 2 - 1/2 | 3/8     |
|                          |         | 1-15/16            | <b>C400-11516</b>    | 1.938                    | 1/4 - 20       | 2 - 1/2 | 1/2     |
| 150 - 250                | 440     | 1-3/16             | <b>C440-1316</b>     | 1.188                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/4              | <b>C440-114</b>      | 1.251                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/2              | <b>C440-112</b>      | 1.501                    | 1/4 - 20       | 2 - 1/8 | 3/8     |
|                          |         | 1-11/16            | <b>C440-11116</b>    | 1.688                    | 1/4 - 20       | 2 - 1/2 | 3/8     |
|                          |         | 1-15/16            | <b>C440-11516</b>    | 1.938                    | 1/4 - 20       | 2 - 1/2 | 1/2     |
|                          |         | 1-3/16             | <b>C440-1316</b>     | 1.188                    | 1/4 - 20       | 1 - 3/4 | 1 - 4   |
| 300 - 350                | 440     | 1-1/4              | <b>C440-114</b>      | 1.251                    | 1/4 - 20       | 1 - 3/4 | 1/4     |
|                          |         | 1-1/2              | <b>C440-112</b>      | 1.501                    | 1/4 - 20       | 1 - 3/4 | 3/8     |
|                          |         | 1-11/16            | <b>C440-11116</b>    | 1.688                    | 1/4 - 20       | 2 - 1/2 | 3/8     |
|                          |         | 1-15/16            | <b>C440-11516</b>    | 1.938                    | 1/4 - 20       | 2 - 1/2 | 1/2     |
|                          |         | 1-11/16            | <b>C5000-11116</b>   | 1.688                    | 1/4 - 20       | 2 - 1/2 | 3/8     |
| 300 - 350                | 5000    | 1-15/16            | <b>C5000-11516</b>   | 1.938                    | 1/4 - 20       | 2 - 1/2 | 1/2     |
|                          |         | 2-3/16             | <b>C5000-2316</b>    | 2.188                    | 3/8 - 16       | 3 - 1/4 | 1/2     |
|                          |         | 1-11/16            | <b>C5000-11116</b>   | 1.688                    | 1/4 - 20       | 2 - 1/2 | 3/8     |
| 400 - 500                | 5000    | 1-15/16            | <b>C5000-11516</b>   | 1.938                    | 1/4 - 20       | 2 - 1/2 | 1/2     |
|                          |         | 2-3/16             | <b>C5000-2316</b>    | 2.188                    | 3/8 - 16       | 3 - 1/4 | 1/2     |

| Hp  | Frame | Downthrust (lbs.) |
|-----|-------|-------------------|
| 15  | 254TP | 3,300             |
| 20  | 256TP | 3,300             |
| 25  | 284TP | 3,300             |
| 30  | 286TP | 3,300             |
| 40  | 324TP | 5,700             |
| 50  | 326TP | 5,700             |
| 60  | 364TP | 5,700             |
| 75  | 365TP | 5,700             |
| 100 | 404TP | 6,700             |
| 125 | 405TP | 6,700             |
| 150 | 444TP | 15,680            |
| 200 | 445TP | 15,680            |
| 250 | 445TP | 15,680            |
| 300 | 447TP | 15,680            |
| 350 | 449TP | 15,680            |
| 300 | 5006P | 16,480            |
| 350 | 5006P | 16,480            |
| 400 | 5008P | 16,480            |
| 450 | 5008P | 16,480            |
| 500 | 5008P | 16,480            |

Indicates standard flange size **Red** catalog number indicates **NEW** product

# REPLACEMENT PARTS

WP1 Premium efficient, three phase

## Bearings

| HP        | Frame | Description         | Catalog Number     |
|-----------|-------|---------------------|--------------------|
| 15 - 20   | 250TP | Thrust (Top)        | <b>7312BM</b>      |
|           |       | Guided (Bottom)     | <b>6212</b>        |
| 25 - 30   | 280TP | Thrust (Top)        | <b>7312BM</b>      |
|           |       | Guided (Bottom)     | <b>6212</b>        |
| 40 - 50   | 320TP | Guided (Bottom)     | <b>6213</b>        |
|           |       | Thrust (Top)        | <b>7221BM</b>      |
| 60 - 75   | 360TP | Guided (Bottom)     | <b>6314</b>        |
|           |       | Thrust (Top)        | <b>7224BM</b>      |
| 100 - 125 | 400TP | Guided (Bottom)     | <b>6317</b>        |
|           |       | Thrust (Top)        | <b>7230BM</b>      |
| 150 - 350 | 440TP | Guided (Bottom)     | <b>6318</b>        |
|           |       | Double thrust (Top) | <b>7232BM / DT</b> |
| 300 - 500 | 5000P | Guided (Bottom)     | <b>6322</b>        |
|           |       | Double thrust (Top) | <b>7236BM / DT</b> |

## Steady bushings

| HP      | Frame   | Bore size (in) | Catalog number        |
|---------|---------|----------------|-----------------------|
| 15 - 30 | 250/280 | 1              | <b>SB250/280-1</b>    |
|         |         | 1.1875         | <b>SB250/280-1316</b> |
|         |         | 1.25           | <b>SB250/280-114</b>  |
| 40 - 50 | 320     | 1              | <b>SB320-1</b>        |
|         |         | 1.1875         | <b>SB320-1316</b>     |
|         |         | 1.25           | <b>SB320-114</b>      |
| 60-75   | 360     | 1.5            | <b>SB320-112</b>      |
|         |         | 1              | <b>SB360-1</b>        |
|         |         | 1.875          | <b>SB360-1316</b>     |
| 100-125 | 400     | 1.25           | <b>SB400-114</b>      |
|         |         | 1.5            | <b>SB400-112</b>      |
|         |         | 1.875          | <b>SB400-1316</b>     |
| 150-350 | 440     | 1.25           | <b>SB400-114</b>      |
|         |         | 1.5            | <b>SB400-112</b>      |
|         |         | 1.6875         | <b>SB400-11116</b>    |
|         |         | 1.9375         | <b>SB400-11516</b>    |
|         |         | 1.875          | <b>SB440-1316</b>     |
| 300-500 | 5000    | 1.25           | <b>SB440-114</b>      |
|         |         | 1.5            | <b>SB440-112</b>      |
|         |         | 1.6875         | <b>SB440-11116</b>    |
|         |         | 1.9375         | <b>SB440-11516</b>    |
| 300-500 | 5000    | 2.1875         | <b>SB5000-11116</b>   |
|         |         | 1.9375         | <b>SB5000-11516</b>   |
|         |         | 2.1875         | <b>SB5000-2316</b>    |

Red catalog number indicates **NEW** product





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