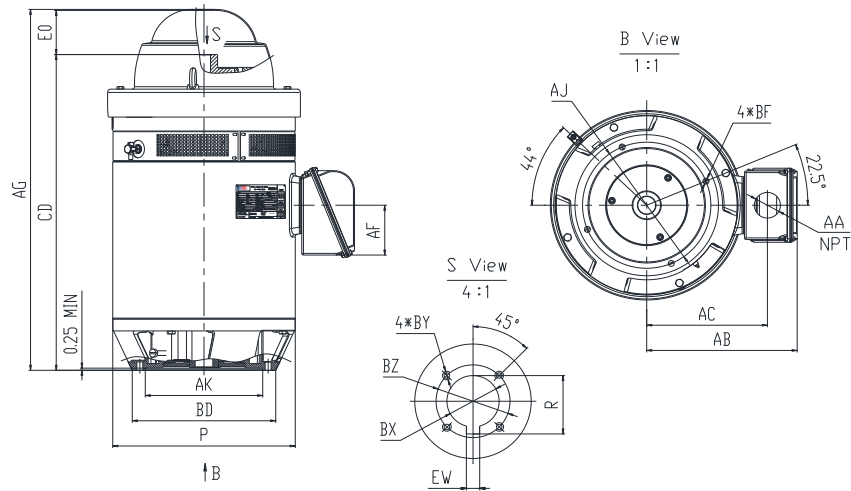




**V2-250S4-W44516A**

- VERTICAL HOLLOW SHAFT MOTOR
- NEMA PREMIUM EFFICIENCY
- INVERTER DUTY 20:1 VT
- INCLUDES INSULATED BEARING MOUNT - 40 HP AND ABOVE
- HIGH THRUST DESIGN
- THREE PHASE, OPEN DRIP PROOF (WP1) ENCLOSURE
- NON-REVERSE BALL TYPE RATCHET
- COUPLING INCLUDED



**DIMENSIONS**

| HP  | RPM  | Frame | MOUNTING DIMENSIONS |       |      |      |         |     |     |      |        |       |      |       |    |      |
|-----|------|-------|---------------------|-------|------|------|---------|-----|-----|------|--------|-------|------|-------|----|------|
|     |      |       | BD                  | AJ    | AK   | BF   | BX      | BZ  | EW  | R    | BY     | CD    | EO > | AC    | AA | AF   |
| 250 | 1788 | 445TP | 16.5                | 14.75 | 13.5 | 0.69 | 1-15/16 | 2.5 | 0.5 | 2.16 | 1/4-20 | 44.78 | 5.4  | 16.18 | 3  | 7.56 |

| OVERALL DIMENSIONS |      |       | BEARINGS |       |
|--------------------|------|-------|----------|-------|
| P                  | AB   | AG    | UPPER    | LOWER |
| 23.3               | 20.7 | 50.29 | 7232B    | 6318  |

**COUPLING:** Motor comes with a 1.938" coupling. You may select a different size coupling at no extra charge.

**BEARING LUBRICATION:** The lower bearing comes lubricated with Mobil Polyrex EM Polyurea Grease.

**OIL RESERVOIR:** Motor is shipped without oil. The oil capacity is 5.61 quarts.

**STEADY BUSHING:** Motor is designed to accept a steady bushing. The bore size is 1-15/16 inches.





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**HIGH THRUST DESIGN**  
**THREE PHASE, OPEN DRIP PROOF (WP1) ENCLOSURE**  
**NON-REVERSE BALL TYPE RATCHET**  
**COUPLING INCLUDED**

**PERFORMANCE DATA**

| HP  | RPM  | Frame | Voltage | Frequency (Hz) | Full Load S.F. | Insulation Class | NEMA Design | Slip (%) | NEMA Code | Enclosure Type | IP Rating | Max. Ambient | Rating CONT |
|-----|------|-------|---------|----------------|----------------|------------------|-------------|----------|-----------|----------------|-----------|--------------|-------------|
| 250 | 1788 | 445TP | 460     | 60             | 1.15           | F                | B           | 0.66     | G         | WP1            | 23        | 40° C        | S1          |

| Amps (460V) |      | Efficiency (%) |      |      |      | Power Factor |      |      | Torque (ft-lb) |       |       | Down Thrust (lbs.) | Angular Contact Bearing | Radial Ball Bearing | Connection | Weight (lbs.) |
|-------------|------|----------------|------|------|------|--------------|------|------|----------------|-------|-------|--------------------|-------------------------|---------------------|------------|---------------|
| FLA         | LRA  | 100%           | 75%  | 50%  | Min. | 100%         | 75%  | 50%  | FLT            | LRT % | BDT % | 7200               | UPPER                   | LOWER               | 6 Lead Δ   | 2206          |
| 276         | 1849 | 95.8           | 94.5 | 93.1 | 95.0 | 0.88         | 0.87 | 0.81 | 730            | 168   | 220   |                    | 7232B                   | 6318                |            |               |

**NAME PLATE**

|   |  |            |  |               |  |   |  |              |  |                  |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
|---|--|------------|--|---------------|--|---|--|--------------|--|------------------|--|------------|--|---|--|--|--|---------------------------------------|--|--|--|--|--|----------------------|--|--|--|--|--|
|   |  |            |  |               |  | <b>VERTICAL HOLLOW SHAFT HIGH THRUST DESIGN</b> |  |              |  |                  |  |            |  |   |  |  |  | <b>CONNECTION DIAGRAMS</b>            |  |  |  |  |  |                      |  |  |  |  |  |
| MODEL   |  |            |  |               |  | V2-250S4-W44516A                                |  |              |  |                  |  | FRAME      |  |   |  |  |  | 445TP                                 |  |  |  |  |  | <b>PWS Start</b><br> |  |  |  |  |  |
| Hz  |  | 60         |  | S.F.          |  | 1.15  |  | ENCL         |  | WP1              |  | DESIGN     |  | B |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| HP  |  | 250        |  | RPM           |  | 1788  |  | INS          |  | F                |  | PHASE      |  | 3 |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| VOLTS   |  | 460        |  | FLA           |  | 276   |  | MAX.AMBIENT  |  |                  |  | 40° C      |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| Enclosure   |  | ODP        |  | IP            |  | 23  |  | RATING       |  |                  |  | CONTINUOUS |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| NEMA CODE   |  | G          |  | P.F.          |  | 0.88  |  | MOTOR WEIGHT |  |                  |  | 2206 LBS.  |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| NOM EFF   |  | 95.8       |  | MIN EFF       |  | 95.0  |  | CONNECTION   |  |                  |  | 6 Lead Δ   |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| DOWN THRUST   |  | 7200       |  | LBS.          |  | BASE DIAMETER                                   |  |              |  | 16.5 INCHES      |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| UPPER BEARING   |  | 7232B      |  | LOWER BEARING |  |   |  | 6318         |  |                  |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| OIL CAP. UPPER BEARING  |  | 5.61       |  | QTS.          |  | LUBRICATION                                     |  |              |  | MOBIL POLYREX EM |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| NON-REVERSE RATCHET - BALL TYPE                                       |  | SERIAL NO. |  |               |  |   |  |              |  |                  |  | CC082A     |  |   |  |  |  | <b>PART WIND START CAPABLE @ 460V</b> |  |  |  |  |  |                      |  |  |  |  |  |
| Specifically designed for use on deep well turbine pump applications. |  |            |  |               |  | E310089   |  |              |  |                  |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |
| Hernando, Mississippi   |  | ROTATION   |  |               |  |   |  |              |  |                  |  |            |  |   |  |  |  |                                       |  |  |  |  |  |                      |  |  |  |  |  |

**MOTOR IS SUITABLE FOR INVERTER RATED 20:1 VT**

**APPLICATIONS:**

Specifically designed for use on deep well turbine pump applications. The coupling is equipped with a non-reverse ratchet, which prevents motor rotation from backspin at shutdown. These motors are built to NEMA standards and have special bearing arrangements to carry heavy thrust loads.