

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 444TTDS14086

Catalog No: M847A

100 HP Vertical Solid Shaft P-Base Motor, 3 phase, 1200 RPM, 230/460 V, 444HPV Frame, ODP  
Vertical Pump Motors

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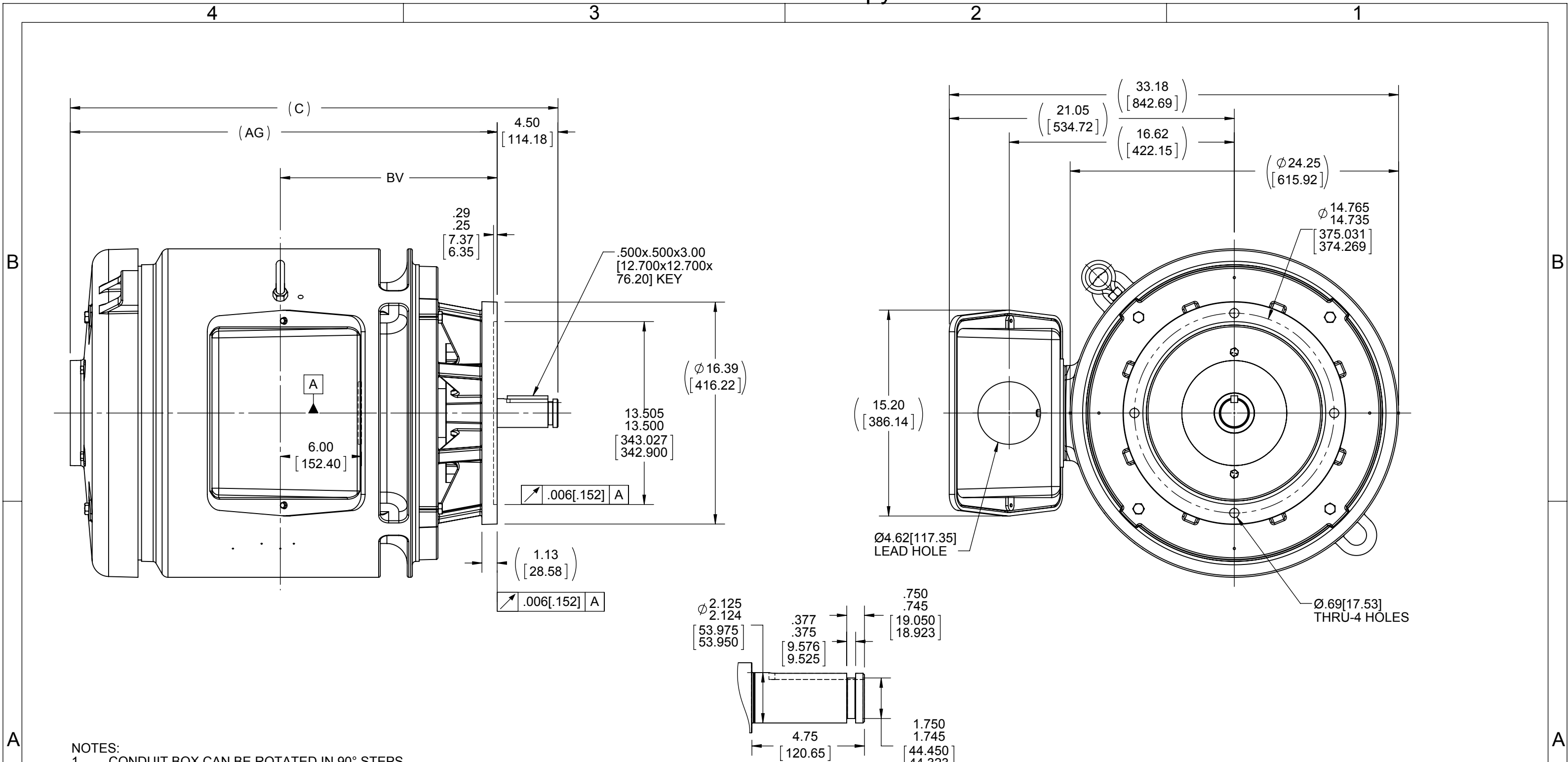
**RegalRexnord**

### Nameplate Specifications

|                        |                      |                            |                   |
|------------------------|----------------------|----------------------------|-------------------|
| Output HP              | <b>100 Hp</b>        | Output KW                  | <b>75.0 kW</b>    |
| Frequency              | <b>60 Hz</b>         | Voltage                    | <b>230/460 V</b>  |
| Current                | <b>236.0/118.0 A</b> | Speed                      | <b>1185 rpm</b>   |
| Service Factor         | <b>1.15</b>          | Phase                      | <b>3</b>          |
| Efficiency             | <b>94.1 %</b>        | Power Factor               | <b>84</b>         |
| Duty                   | <b>Continuous</b>    | Insulation Class           | <b>B</b>          |
| Design Code            | <b>B</b>             | KVA Code                   | <b>G</b>          |
| Frame                  | <b>444HPV</b>        | Enclosure                  | <b>Drip Proof</b> |
| Thermal Protection     | <b>No</b>            | Ambient Temperature        | <b>40 °C</b>      |
| Drive End Bearing Size | <b>6316</b>          | Opp Drive End Bearing Size | <b>6316</b>       |
| UL                     | <b>Recognized</b>    | CSA                        | <b>Y</b>          |
| CE                     | <b>Y</b>             | IP Code                    | <b>12</b>         |
| Number of Speeds       | <b>1</b>             |                            |                   |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>6</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>.068 Ohms</b>                   | Mounting              | <b>Round</b>           |
| Motor Orientation     | <b>Shaft Down</b>                  | Drive End Bearing     | <b>Ball</b>            |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Cast Iron</b>       |
| Shaft Type            | <b>HP</b>                          | Overall Length        | <b>36.26 in</b>        |
| Frame Length          | <b>20.50 in</b>                    | Shaft Diameter        | <b>2.125 in</b>        |
| Shaft Extension       | <b>4.5 in</b>                      | Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>   |
| Connection Drawing    | <b>A-EE7308K</b>                   | Outline Drawing       | <b>B-SS504363-2050</b> |



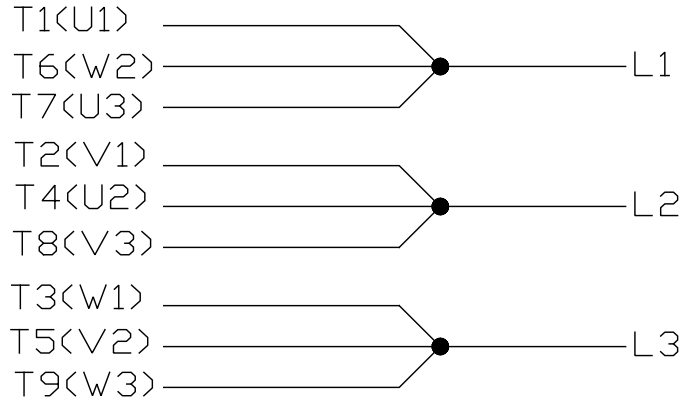
- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS  
 2. NAMEPLATES TO BE READ FROM SHAFT EXT. END OF MOTOR

DETAIL OF SHAFT EXTENSION

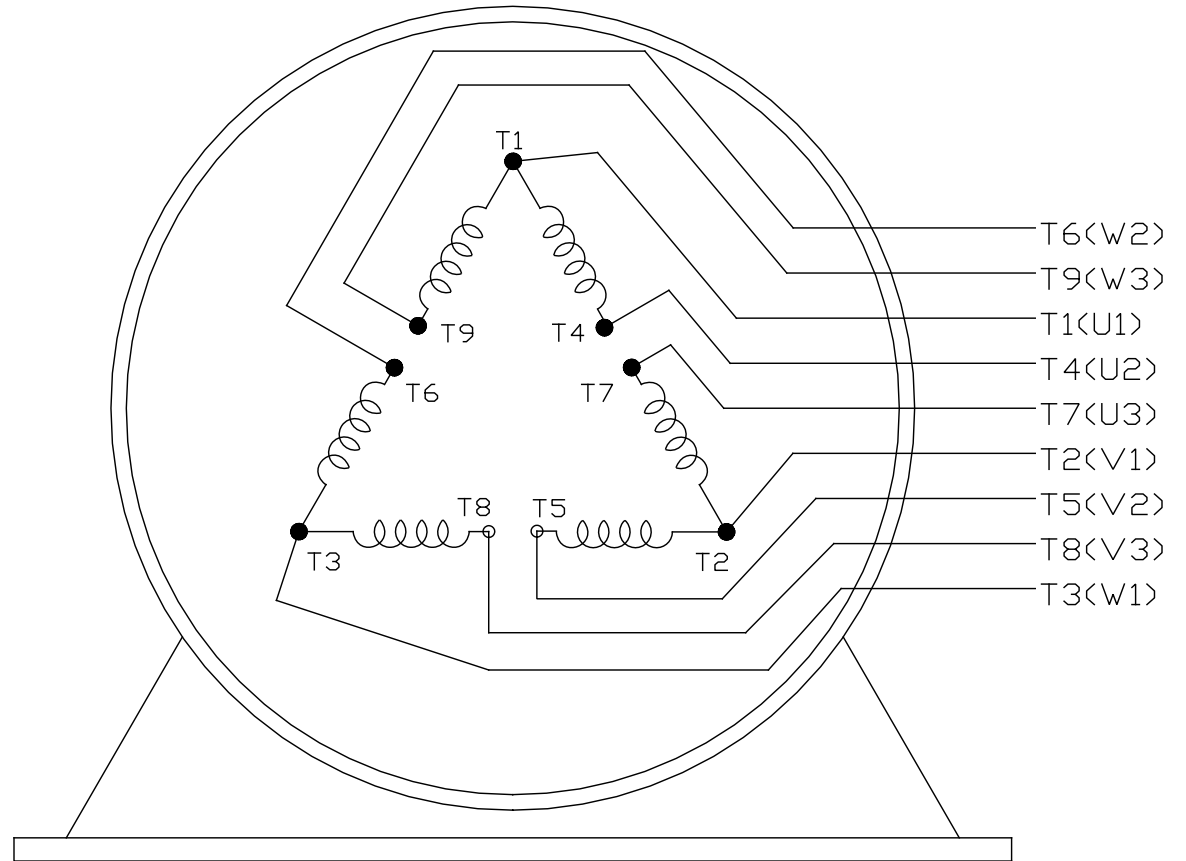
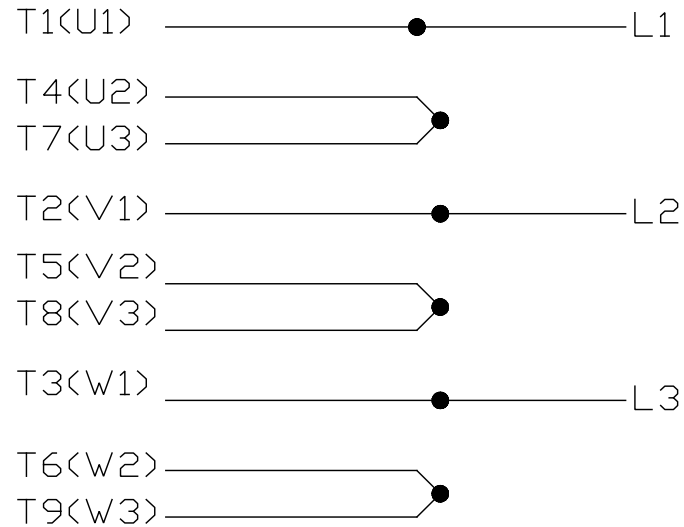
| DASH | FRAME | C                 | AG                | BV                |
|------|-------|-------------------|-------------------|-------------------|
| 2050 | 440HP | 36.26<br>[921.00] | 31.52<br>[800.61] | 16.02<br>[406.91] |

|   |                    |                    |   |                        |  |
|---|--------------------|--------------------|---|------------------------|--|
| DRAWING REVISION<br>P   | REVISION BY<br>AJW | DATE<br>09-05-2014 | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>DEC. INCH mm ANGLE<br>.X ±0.1 [±2.5] ±0.5°<br>.XX ±0.01 [±0.25]<br>.XXX ±0.005 [±0.127]<br>.XXXX ±0.0005 [±0.0127]<br>REMOVE BURRS & BREAK SHARP<br>EDGES: .003/.015 [0.076/.381]<br>CORNER FILLETS: .02 [0.51]<br>MACHINED SURFACES: 125 INCH 3.2 mm<br>mm SHOWN IN [BRACKETS] | DRAWN BY<br>DJK        | <b>REGAL</b> ™ Regal Beloit America, Inc.                      |
| ECO<br>ECO-0059513  | APPROVED BY<br>DJK | DATE<br>09-08-2014 |   | DATE<br>11-13-1992     |  |
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|   |                    |                    |   | DATE<br>11-18-1992     | MATERIAL   |
|   |                    |                    |   | REFERENCE              | PROCESS/FINISH   |
|   |                    |                    |   | THIRD ANGLE PROJECTION | SIZE<br>B  |
|   |                    |                    |   |                        | DRAWING NUMBER<br><b>SS504363</b>                              |
|   |                    |                    |   |                        | SHEET<br>1 OF 1  |


LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

|  |  |                | TOLERANCES UNLESS SPECIFIED |       |  <b>REGAL - BELOIT CORPORATION</b> | DRAWN PGK 06-04-1997 |                                 |                    |                     |         |        |
|--|--|----------------|-----------------------------|-------|---|----------------------|---------------------------------|--------------------|---------------------|---------|--------|
| NO.  | REVISION                                   | BY & DATE      | CHK                         | ANG   |   | ±                    | INCHES                          | SCALE              | PREV                |         |        |
| E  | CORRECTED IEC MARKINGS ECD-0111208         | WGJ 01-23-2017 | EMH                         | DEC.  |   |                      |                                 | CHK ML 06-05-1997  |                     |         |        |
| D  | RE-DRAWN WITH REGAL LOGO ECD-0110493       | WGJ 09-30-2016 | EMH                         | .X    | ±.1   |                      |                                 | APPD GK 06-15-1997 |                     |         |        |
| 8  | ADDED IEC DESIGNATIONS MU95020             | TJW 4/30/2010  | MJS                         | .XX   | ±.02  |                      | TITLE CONNECTION DIAGRAM        |                    |                     |         |        |
| 7  | REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354 | MRB 09-21-1998 |                             | .XXX  | ±.005   |                      | TITLE DELTA CON. - 3Ø - 9 LEADS | REF                |                     |         |        |
| 6  | REDRAWN ON CADD                            | PGK 06-05-1997 |                             | .XXXX | ±.0005  |                      | MAT'L.                          | FMF                |                     |         |        |
|  |  |                |                             |       | ±7'30"  |                      | FINISH                          |                    |                     |         |        |
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|  |  |                |                             |       | DIST  |                      |                                 |                    |                     |         |        |