

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 445TSTDS7936

Catalog No: Y659

Fire Pump Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445TS Frame, DP

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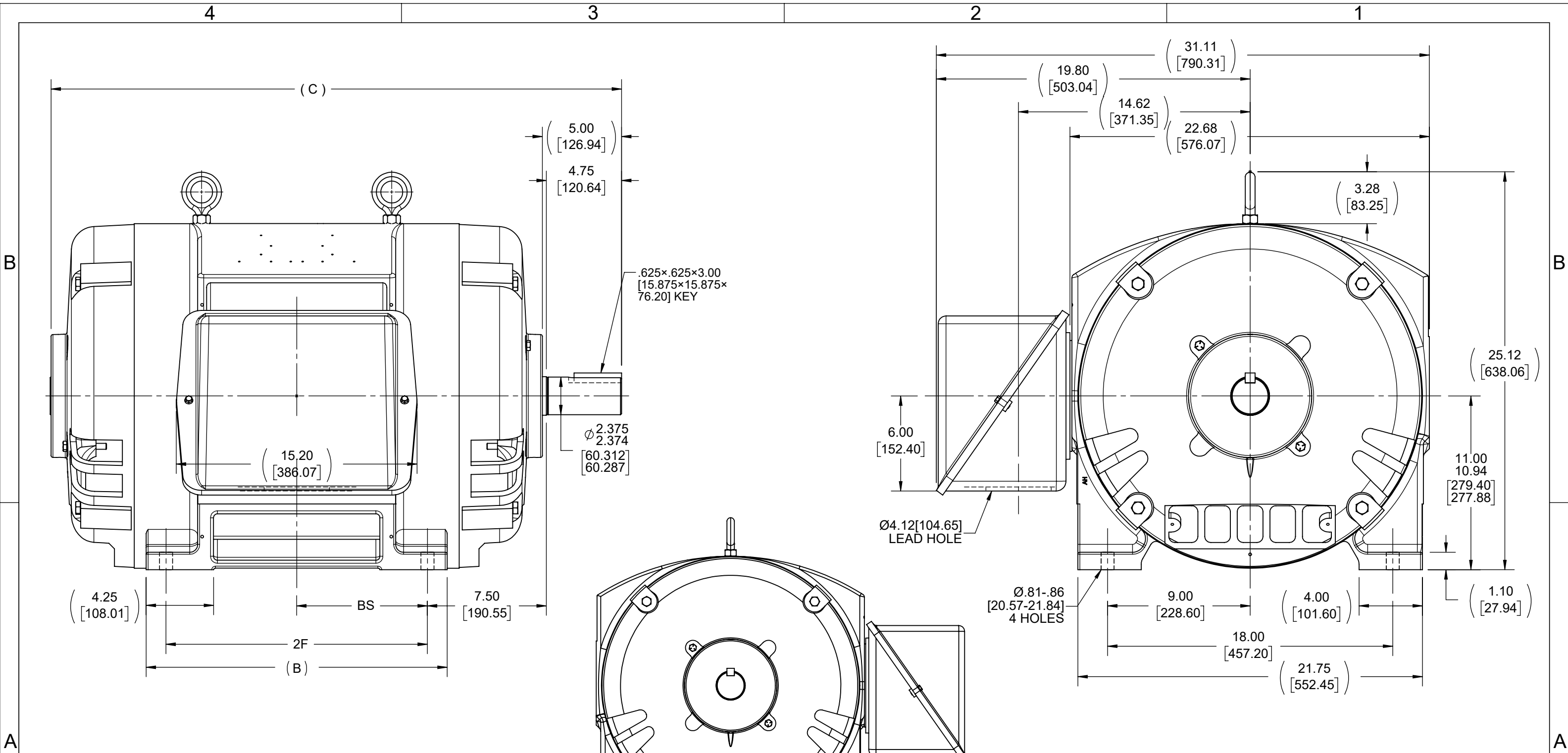
**RegalRexnord**

### Nameplate Specifications

|                        |                             |                            |                         |
|------------------------|-----------------------------|----------------------------|-------------------------|
| Phase                  | <b>3</b>                    | Output HP                  | <b>250 &amp; 200 Hp</b> |
| Output KW              | <b>187.0 &amp; 149.0 kW</b> | Voltage                    | <b>460 &amp; 380 V</b>  |
| Speed                  | <b>1780 &amp; 1480 rpm</b>  | Service Factor             | <b>1.15 &amp; 1.15</b>  |
| Frame                  | <b>445TS</b>                | Enclosure                  | <b>Drip Proof</b>       |
| Thermal Protection     | <b>No Protection</b>        | Efficiency                 | <b>95 &amp; 94.5 %</b>  |
| Ambient Temperature    | <b>40 °C</b>                | Frequency                  | <b>60 &amp; 50 Hz</b>   |
| Current                | <b>287 &amp; 275 A</b>      | Power Factor               | <b>86</b>               |
| Duty                   | <b>Continuous</b>           | Insulation Class           | <b>B</b>                |
| Design Code            | <b>B</b>                    | KVA Code                   | <b>F</b>                |
| Drive End Bearing Size | <b>6313</b>                 | Opp Drive End Bearing Size | <b>6313</b>             |
| UL                     | <b>No</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>Part Wdg Start &amp; Wye Start Delta Run</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</b>                               |
| Resistance Main       | <b>.021 Ohms</b>                   | Mounting              | <b>Rigid Base</b>                               |
| Motor Orientation     | <b>Horizontal</b>                  | Drive End Bearing     | <b>Ball</b>                                     |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Cast Iron</b>                                |
| Shaft Type            | <b>TS</b>                          | Overall Length        | <b>36.00 in</b>                                 |
| Frame Length          | <b>20.50 in</b>                    | Shaft Diameter        | <b>2.375 in</b>                                 |
| Shaft Extension       | <b>5 in</b>                        | Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>                            |
| Connection Drawing    | <b>A-EE7300BH</b>                  | Outline Drawing       | <b>B-SS509642-2050</b>                          |



- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.  
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.  
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| DASH | FRAME | B                 | C                 | 2F                | BS               |
|------|-------|-------------------|-------------------|-------------------|------------------|
| 1850 | 444TS | 17.00<br>[431.80] | 34.00<br>[863.60] | 14.50<br>[368.30] | 7.25<br>[184.15] |
| 2050 | 445TS | 19.00<br>[482.60] | 36.00<br>[914.40] | 16.50<br>[419.10] | 8.25<br>[209.55] |

|   |                          |                    |
|---|--------------------------|--------------------|
| DRAWING REVISION<br>D   | REVISION BY<br>A. KEETHA | DATE<br>10-01-2021 |
| ECO<br>NMR-0210542  | APPROVED BY<br>A. KEETHA | DATE<br>10-01-2021 |
| ECO DESCRIPTION<br>F2 VIEW ADDED  |                          |                    |
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TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 DEC. INCH mm ANGLE  
 .X ±0.1 [±2.5] ±7° 30"  
 .XX ±0.03 [±0.76]  
 .XXX ±0.005 [±0.127]  
 .XXXX ±0.0005 [±0.0127]  
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°  
 CORNER FILLETS: R.02 [51]  
 MACHINED SURFACES: 200 INCH mm 5.1  
 mm SHOWN IN [BRACKETS]

|                        |
|------------------------|
| DRAWN BY<br>TLB        |
| DATE<br>03-11-1988     |
| APPROVED BY<br>GK      |
| DATE<br>03-11-1988     |
| REFERENCE              |
| THIRD ANGLE PROJECTION |

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
444/445TS FR. - DR. PR. STD.

MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS509642** SHEET 1 OF 1



VIEW OF TERMINAL END

|  |                              |             |                | TOLERANCES UNLESS SPECIFIED |              | REGAL REGAL-BELOIT CORPORATION | DRAWN RJW 02-11-2005 |             |            |      |
|--|------------------------------|-------------|----------------|-----------------------------|--------------|--------------------------------|----------------------|-------------|------------|------|
|  |                              |             |                | DEC.                        | INCHES       |                                | CHK                  | ML          | 02-11-2005 |      |
|  |                              |             |                | .X                          | ±.1          |                                | APPD                 | GK          | 02-11-2005 |      |
|  |                              |             |                | .XX                         | ±.02         | TITLE CONNECTION DIAGRAM       |                      | SCALE       |            |      |
| D  | CHANGED TO REGAL TITLE BLOCK | ECO-0108299 | WGJ 08/22/2016 | EMH                         | .XXX ±.005   | 12 LEAD- SINGLE VOLTAGE        |                      | REF         |            |      |
| 1  | ADDED IEC TERMINAL MARKINGS  | CN 41429    | JJB 05/24/2007 | ML                          | .XXXX ±.0005 | MAT'L.                         |                      | FMF         |            |      |
| NO.  | REVISION                     | BY & DATE   | CHK            | ANG                         | ±7'30"       | FINISH                         |                      | PREV        |            |      |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |                              |             |                | RFP                         | 02-11-2005   | CAD FILE ee7300bh              | SIZE                 | DRAWING NO. | PAGE OF    | REV. |
|  |                              |             |                | DIST                        | LB           |                                | A                    | EE7300BH    |            | C    |