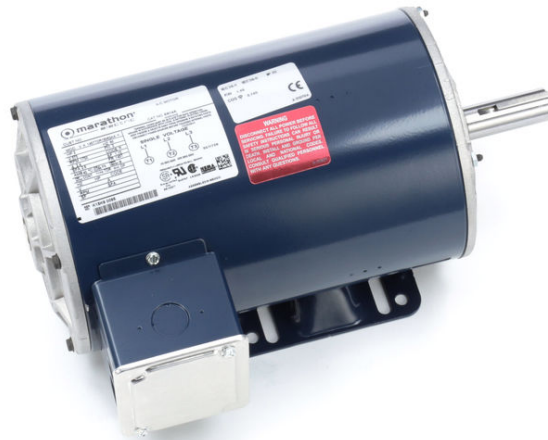


# PRODUCT INFORMATION PACKET

Model No: 145TTDR16062  
Catalog No: E914A  
2,1800,DP,145T,3/60/575  
Open Drip Proof (ODP)



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.  
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E





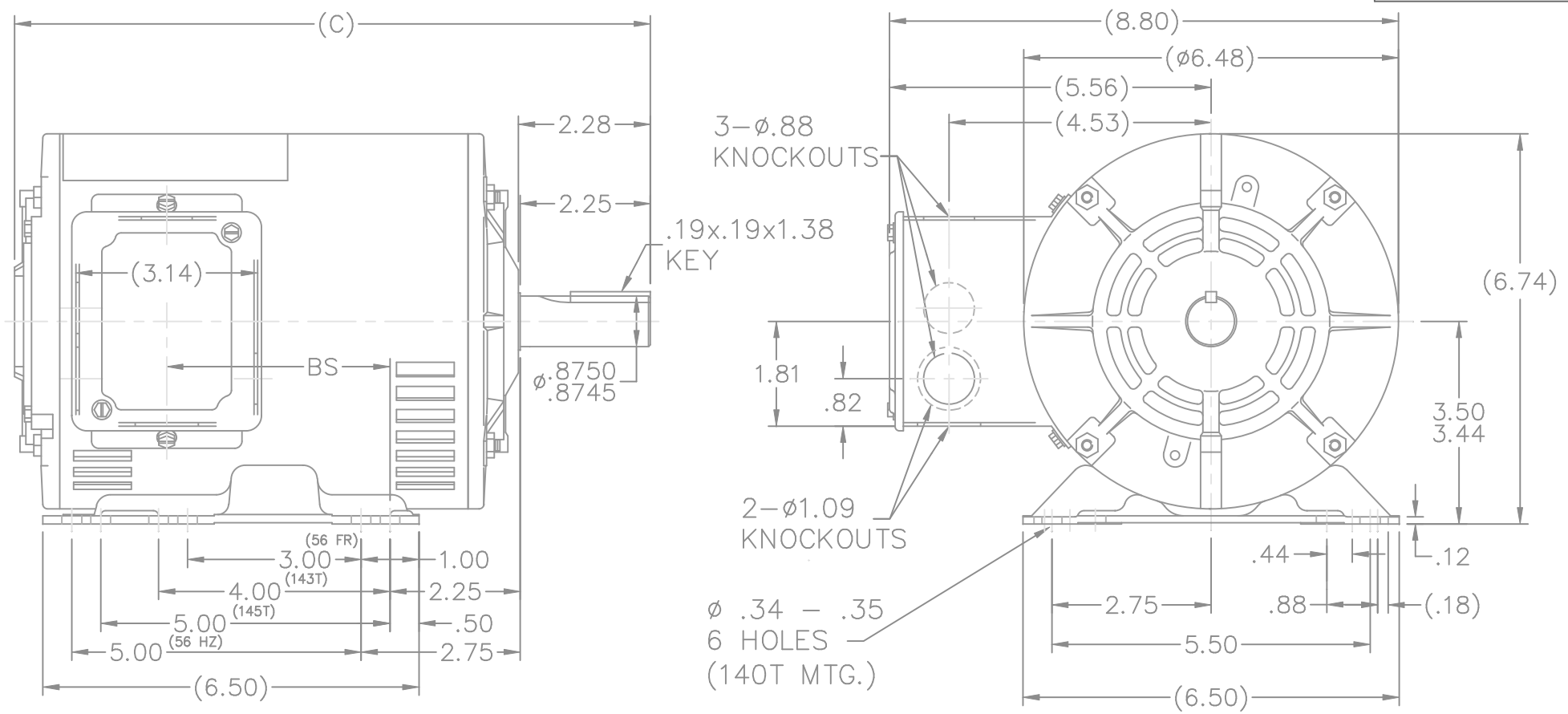
### Nameplate Specifications

|                            |                   |                        |                   |
|----------------------------|-------------------|------------------------|-------------------|
| Output HP                  | <b>2 Hp</b>       | Output KW              | <b>1.5 kW</b>     |
| Frequency                  | <b>60 Hz</b>      | Voltage                | <b>575 V</b>      |
| Current                    | <b>2.4 A</b>      | Speed                  | <b>1750 rpm</b>   |
| Service Factor             | <b>1.15</b>       | Phase                  | <b>3</b>          |
| Efficiency                 | <b>86.5 %</b>     | Duty                   | <b>Continuous</b> |
| Insulation Class           | <b>F</b>          | Design Code            | <b>B</b>          |
| KVA Code                   | <b>N</b>          | Frame                  | <b>145T</b>       |
| Enclosure                  | <b>Drip Proof</b> | Overload Protector     | <b>No</b>         |
| Ambient Temperature        | <b>40 °C</b>      | Drive End Bearing Size | <b>6205</b>       |
| Opp Drive End Bearing Size | <b>6203</b>       | UL                     | <b>Recognized</b> |
| CSA                        | <b>Y</b>          | CE                     | <b>Y</b>          |
| IP Code                    | <b>22</b>         |                        |                   |

### Technical Specifications

|                       |                                     |                       |                         |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method       | <b>Line Or Inverter</b> |
| Poles                 | <b>4</b>                            | Rotation              | <b>Reversible</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>Rolled Steel</b>                 | Shaft Type            | <b>T</b>                |
| Overall Length        | <b>13.49 in</b>                     | Frame Length          | <b>9.56 in</b>          |
| Shaft Diameter        | <b>0.875 in</b>                     | Shaft Extension       | <b>2.28 in</b>          |
| Assembly/Box Mounting | <b>F1 Only</b>                      |                       |                         |
| Outline Drawing       | <b>A-100085-956</b>                 | Connection Diagram    | <b>A-EE7300</b>         |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 06/29/2018



| DASH | FR.       | C     | BS/140T | DASH | FR.       | C     | BS/140T |
|------|-----------|-------|---------|------|-----------|-------|---------|
|      |           |       |         | 806  | 140T/56HZ | 11.99 | 4.86    |
|      |           |       |         | 856  | "         | 12.49 | 5.36    |
| 706  | 140T/56HZ | 10.99 | 3.86    | 906  | "         | 12.99 | 5.86    |
| 756  | "         | 11.49 | 4.36    | 956  | "         | 13.49 | 6.36    |

- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED 180°.  
 2. NAMPLATE READ FROM CONDUIT BOX SIDE.

|  |                    |                |     | TOLERANCES UNLESS SPECIFIED |        | MARATHON ELECTRIC                     | DRAWN GK 02-04-1988 |                    |           |        |
|--|--------------------|----------------|-----|-----------------------------|--------|---------------------------------------|---------------------|--------------------|-----------|--------|
|  |                    |                |     | DEC.                        | INCHES |                                       | CHK ML 02-04-1988   | APPD FG 02-04-1988 | SCALE 3=8 | REF    |
| 2  | REDRAWN IN AUTOCAD | TAT 06-29-2004 | ML  | .XXX                        | ±.005  | TITLE OUTLINE<br>140T & 56HZ - DR.PR. |                     |                    |           |        |
| 1  | NEW DRAWING        | GK 02-02-1988  |     | .XXXX                       | ±.0005 | MAT'L.                                |                     |                    |           |        |
| NO.  | REVISION           | BY & DATE      | CHK | ANG                         | ±7'30" | FINISH                                |                     |                    |           |        |
| 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                         |        | CAD FILE 100085                       | SIZE A              | DRAWING NO. 100085 | PAGE OF   | REV. 2 |
|  |                    |                |     | DIST WP                     |        |                                       |                     |                    |           |        |

**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**



**A-9806 DECAL**

**OPTIONAL CORD  
CONNECTION**



|   |                           |                           |
|---|---------------------------|---------------------------|
| DRAWING REVISION<br><b>AB</b>   | REVISION BY<br><b>JJB</b> | DATE<br><b>06-27-2017</b> |
| ECO<br><b>ECO-0125361</b>   | APPROVED BY<br><b>TB</b>  | DATE<br><b>06-27-2017</b> |
| ECO DESCRIPTION<br><b>UPDATED TO CURRENT STANDARDS</b>  |                           |                           |
| <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br/>                 PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF<br/>                 REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY<br/>                 INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,<br/>                 BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br/>                 TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br/>                 AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br/>                 BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br/>                 RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> |                           |                           |



|                           |
|---------------------------|
| DRAWN BY<br><b>DA</b>     |
| DATE<br><b>03-26-1993</b> |
| APPROVED BY<br><b>TB</b>  |
| DATE<br><b>03-26-1993</b> |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |

|                                   |                                 |  |
|-----------------------------------|---------------------------------|--|
| <b>Regal Beloit America, Inc.</b> |                                 |  |
|                                   |                                 | DESCRIPTION<br><b>CONNECTION DIAGRAM</b><br>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR |
| MATERIAL                          | PROCESS/FINISH                  |  |
| SIZE<br><b>A</b>                  | DRAWING NUMBER<br><b>EE7300</b> | SHEET<br><b>1 OF 1</b>   |

CERTIFICATION DATA SHEET

Model#: 145TTDR16062 AA WINDING#: ZT4260 NONE 2  
 CONN. DIAGRAM: A-EE7300 ASSEMBLY: F1 ONLY  
 OUTLINE: A-100085-956

TYPICAL MOTOR PERFORMANCE DATA

| HP                     | KW          | SYNC. RPM          | F.L. RPM           | FRAME            | ENCLOSURE      | KVA CODE          | DESIGN      |              |           |
|------------------------|-------------|--------------------|--------------------|------------------|----------------|-------------------|-------------|--------------|-----------|
| 2                      | 1.49        | 1800               | 1750               | 145T             | DP             | N                 | B           |              |           |
| PH                     | Hz          | VOLTS              | FL AMPS            | START TYPE       | DUTY           | INSL              | S.F         | AMB°C        | ELEVATION |
| 3                      | 60          | 575                | 2.4                | LINE OR INVERTER | CONTINUOUS     | F3                | 1.15        | 40           | 3300      |
| FULL LOAD EFF: 86.5    |             | 3/4 LOAD EFF: 85.8 | 1/2 LOAD EFF: 82.8 |                  | GTD. EFF       | ELEC. TYPE        |             | NO LOAD AMPS |           |
| FULL LOAD PF: 74.5     |             | 3/4 LOAD PF: 65.3  | 1/2 LOAD PF: 53.8  |                  | 84             | SQ CAGE INV RATED |             | 1.4          |           |
| F.L. TORQUE            |             | LOCKED ROTOR AMPS  |                    | L.R. TORQUE      | B.D. TORQUE    |                   | F.L. RISE°C |              |           |
| 6 LB-FT                |             | 22.7               |                    | 24.1 LB-FT 402   | 30.7 LB-FT 512 |                   | 38          |              |           |
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2         | MAX. WK^2          | SAFE STALL TIME  | STARTS /HOUR   | APPROX. MOTOR WGT |             |              |           |
| 56 dBA                 | 66 dBA      | 0.09 LB-FT^2       | 12 LB-FT^2         | 15 SEC.          | 2              | 45.4 LBS.         |             |              |           |

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET TYPE   | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER               | SCREENS          | PAINT         |
|-------------------|------------------|------------|-------------|-------------|--------------------|--------------------------|------------------|---------------|
| STANDARD          | STANDARD         | RIGID      | HORIZONTAL  | FALSE       | NONE               | FALSE                    | NONE             | BLUE (POWDER) |
| BEARINGS          |                  | GREASE     | SHAFT TYPE  | SPECIAL DE  | SPECIAL ODE        | SHAFT MATERIAL           | FRAME MATERIAL   |               |
| DE                | OPE              | POLYREX EM | T           | NONE        | NONE               | 1144 STRESSPROOF (C-223) | ROLLED STEEL     |               |
| BALL              | BALL             |            |             |             |                    |                          |                  |               |
| 6205              | 6203             |            |             |             | THERMISTORS        | CONTROL                  | SPACE /n HEATERS |               |
| THERMO-PROTECTORS |                  |            |             |             |                    |                          |                  |               |
| THERMOSTATS       | PROTECTORS       | WDG RTDs   | BRG RTDs    |             |                    |                          |                  |               |
| NONE              | NOT              | NONE       | NONE        | NONE        |                    | FALSE                    |                  | NONE VOLTS    |

If Inverter equals NONE, contact factory for further information

|                                |
|--------------------------------|
| INVERTER TORQUE: CONSTANT 10:1 |
| INV. HP SPEED RANGE: NONE      |
| ENCODER: NONE                  |
| NONE NONE                      |
| NONE NONE PPR                  |
| BRAKE: NONE NONE               |
| NONE P/N NONE                  |
| NONE NONE                      |
| - FT-LB NONE V NONE Hz         |

\*  
N  
O  
T  
E  
S  
\*

DATE: 06/23/2017 04:32:22 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 20-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



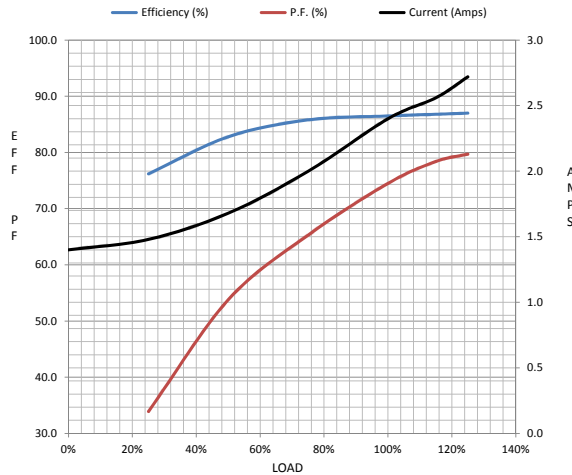
145TTDR16062

Submittal

Data @ 575 V

| Motor Load Data |      |      |      |      |      |       |      |      |  |
|-----------------|------|------|------|------|------|-------|------|------|--|
| Load            | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
| Current (Amps)  | 1.40 | 1.48 | 1.68 | 2.00 | 2.40 | 2.56  | 2.72 | 22.7 |  |
| Torque (ft-lb)  | 0.00 | 1.50 | 2.95 | 4.5  | 6.0  | 7.0   | 7.6  | 24.1 |  |
| RPM             | 1800 | 1789 | 1778 | 1765 | 1750 | 1,745 | 1740 | 0    |  |
| Efficiency (%)  |      | 76.2 | 82.8 | 85.8 | 86.5 | 86.8  | 87.0 |      |  |
| P.F. (%)        | 7.9  | 33.9 | 53.8 | 65.3 | 74.5 | 78.4  | 79.7 | 71.5 |  |

| Motor Speed Data |      |         |      |       |      | Information Block |      |
|------------------|------|---------|------|-------|------|-------------------|------|
|                  | LR   | Pull-Up | BD   | Rated | Idle |                   |      |
| Speed (RPM)      | 0    | 125     | 1220 | 1750  | 1800 | HP                | 2.0  |
| Current (Amps)   | 22.7 | 20.4    | 14.1 | 2.40  | 1.40 | Sync. RPM         | 1800 |
| Torque (ft-lb)   | 24.1 | 22.0    | 30.7 | 6.0   | 0.00 | Frame             | 56   |



|                            |               |        |        |          |
|----------------------------|---------------|--------|--------|----------|
| Enclosure                  | DP            |        |        |          |
| Construction               | TDR           |        |        |          |
| Voltage                    | 575 V         |        |        |          |
| Frequency                  | 60 Hz         |        |        |          |
| Design                     | A             |        |        |          |
| LR Code letter             | N             |        |        |          |
| Service Factor             | 1.15          |        |        |          |
| Temp Rise @ FL             | 38 ° C        |        |        |          |
| Duty                       | CONT          |        |        |          |
| Ambient                    | 40 ° C        |        |        |          |
| Elevation                  | 1,000 feet    |        |        |          |
| Rotor/Shaft wk²            | 0.09 Lb-Ft²   |        |        |          |
| Ref Wdg                    | ZT4260 NONE   |        |        |          |
| Sound Pressure @ 1M        | 56 dBA        |        |        |          |
| VFD Rating                 | CONSTANT 10:1 |        |        |          |
| Outline Dwg                | A-100085-956  |        |        |          |
| Conn. Diag                 | A-EE7300      |        |        |          |
| Additional Specifications: |               |        |        |          |
| 0                          |               |        |        |          |
| 365THFS8036                |               |        |        |          |
| EQUIV CKT (OHMS / PHASE)   |               |        |        |          |
| R1                         | R2            | X1     | X2     | Xm       |
| 6.4340                     | 5.1030        | 9.7630 | 8.8750 | 255.1560 |

