

# PRODUCT INFORMATION PACKET

Model No: 449TTFS6390

Catalog No: E284

XRI® General Purpose General Purpose Motor, 300 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 449T Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

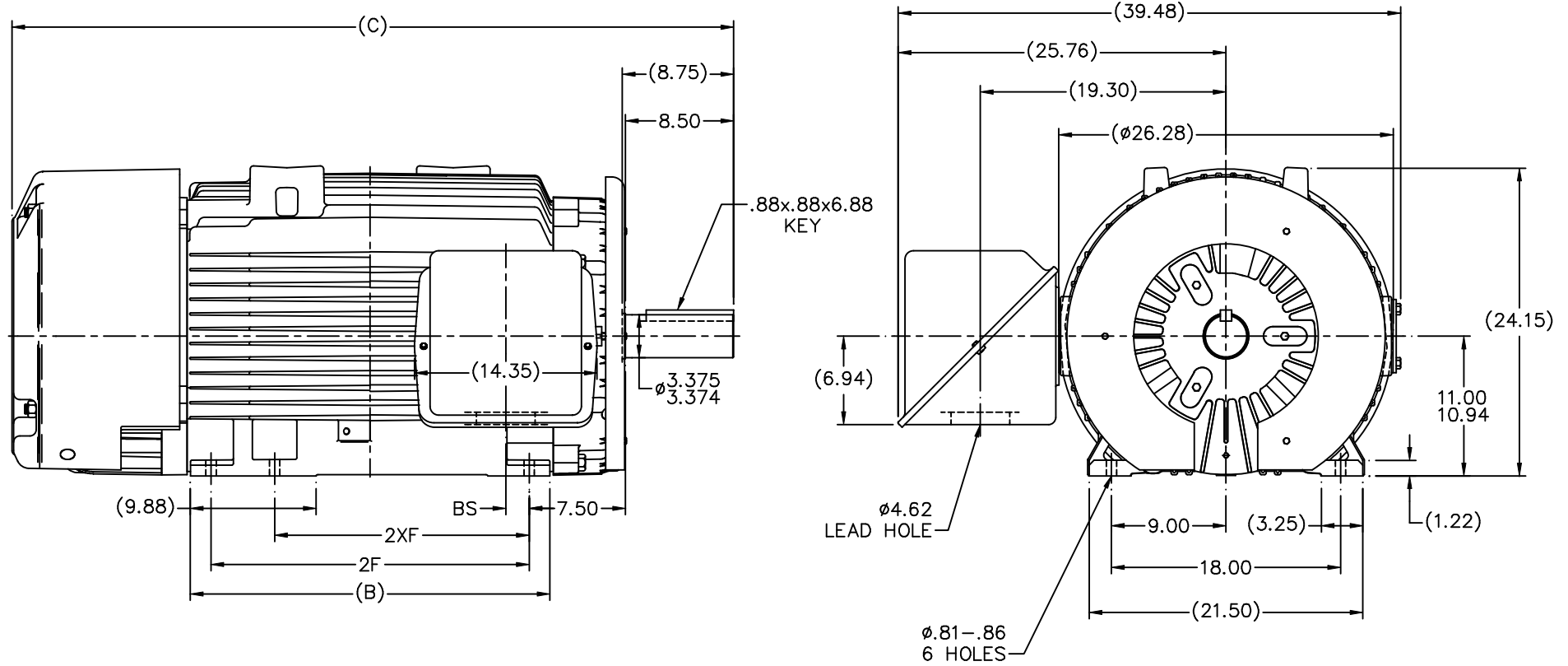
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

### Nameplate Specifications

|                        |                      |                            |                                    |
|------------------------|----------------------|----------------------------|------------------------------------|
| Phase                  | <b>3</b>             | Output HP                  | <b>300 Hp</b>                      |
| Output KW              | <b>224.0 kW</b>      | Voltage                    | <b>460 V</b>                       |
| Speed                  | <b>1190 rpm</b>      | Service Factor             | <b>1.15</b>                        |
| Frame                  | <b>449T</b>          | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No Protection</b> | Efficiency                 | <b>95.8 %</b>                      |
| Ambient Temperature    | <b>40 °C</b>         | Frequency                  | <b>60 Hz</b>                       |
| Current                | <b>362.0 A</b>       | Power Factor               | <b>81</b>                          |
| Duty                   | <b>Continuous</b>    | Insulation Class           | <b>H</b>                           |
| Design Code            | <b>B</b>             | KVA Code                   | <b>G</b>                           |
| Drive End Bearing Size | <b>NU319</b>         | Opp Drive End Bearing Size | <b>6318</b>                        |
| UL                     | <b>Recognized</b>    | CSA                        | <b>Y</b>                           |
| CE                     | <b>Y</b>             | IP Code                    | <b>43</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>.009 Ohms</b>                   | Mounting              | <b>Rigid Base</b>      |
| Motor Orientation     | <b>Horizontal</b>                  | Drive End Bearing     | <b>Roller</b>          |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Cast Iron</b>       |
| Shaft Type            | <b>T</b>                           | Overall Length        | <b>56.71 in</b>        |
| Frame Length          | <b>28.75 in</b>                    | Shaft Diameter        | <b>3.375 in</b>        |
| Shaft Extension       | <b>8.75 in</b>                     | Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>   |
| Connection Drawing    | <b>A-EE7300U</b>                   | Outline Drawing       | <b>B-SS517520-2875</b> |



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

(B-SS516690)

|  |  |  |  |  |  |  | TOLERANCES UNLESS SPECIFIED |            | MARATHON ELECTRIC |        | DRAWN KL 01-04-2000             |                          |                |
|--|--|--|--|--|--|--|-----------------------------|------------|-------------------|--------|---------------------------------|--------------------------|----------------|
|  |  |  |  |  |  |  | DEC.                        | INCHES     |                   |        | CHK                             | DJK 01-04-2000           |                |
| 3 UPDATED DRAWING  |  |  |  |  |  |  | RJW                         | 05-07-2007 | .X                | ±.1    | APPD                            |                          | DJK 01-04-2000 |
| 2 ADDED EXTERNAL AIR BAFFLE CN30272  |  |  |  |  |  |  |                             |            | .XX               | ±.03   | TITLE                           |                          | SCALE 1=8      |
| UPDATED CONDUIT BOX CN28404  |  |  |  |  |  |  | KL                          | 03-26-2001 | .XXX              | ±.005  | 449T FR. - TEFC - DEEP BRACKETS |                          | REF            |
| 1 NEW DRAWING MU28641  |  |  |  |  |  |  | KL                          | 01-05-2000 | .XXXX             | ±.0005 | MATL                            |                          | 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                         |            | CAD FILE SS517520 |        | SIZE                            | DRAWING NO. PAGE OF REV. |                |
|  |  |  |  |  |  |  | DIST                        | WA         |                   |        | B                               | SS517520 3               |                |

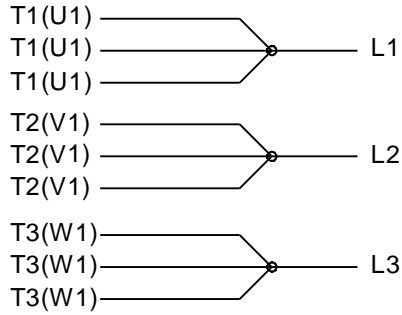
| DASH | FRAME | B     | C     | 2F    | 2XF   | BS   |
|------|-------|-------|-------|-------|-------|------|
| 2875 | 447T  | 28.25 | 56.71 |       | 20.00 | 1.78 |
| 2875 | 449T  | 28.25 | 56.71 | 25.00 |       | 1.78 |

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

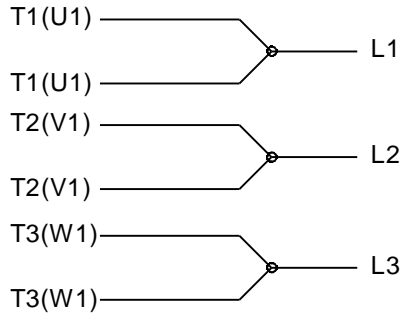
STACK:

-dictionary-  
-dictionary-  
/Pscript\_WinNT\_Compat  
-dictionary-

**IF MOTOR HAS 9 LEADS**

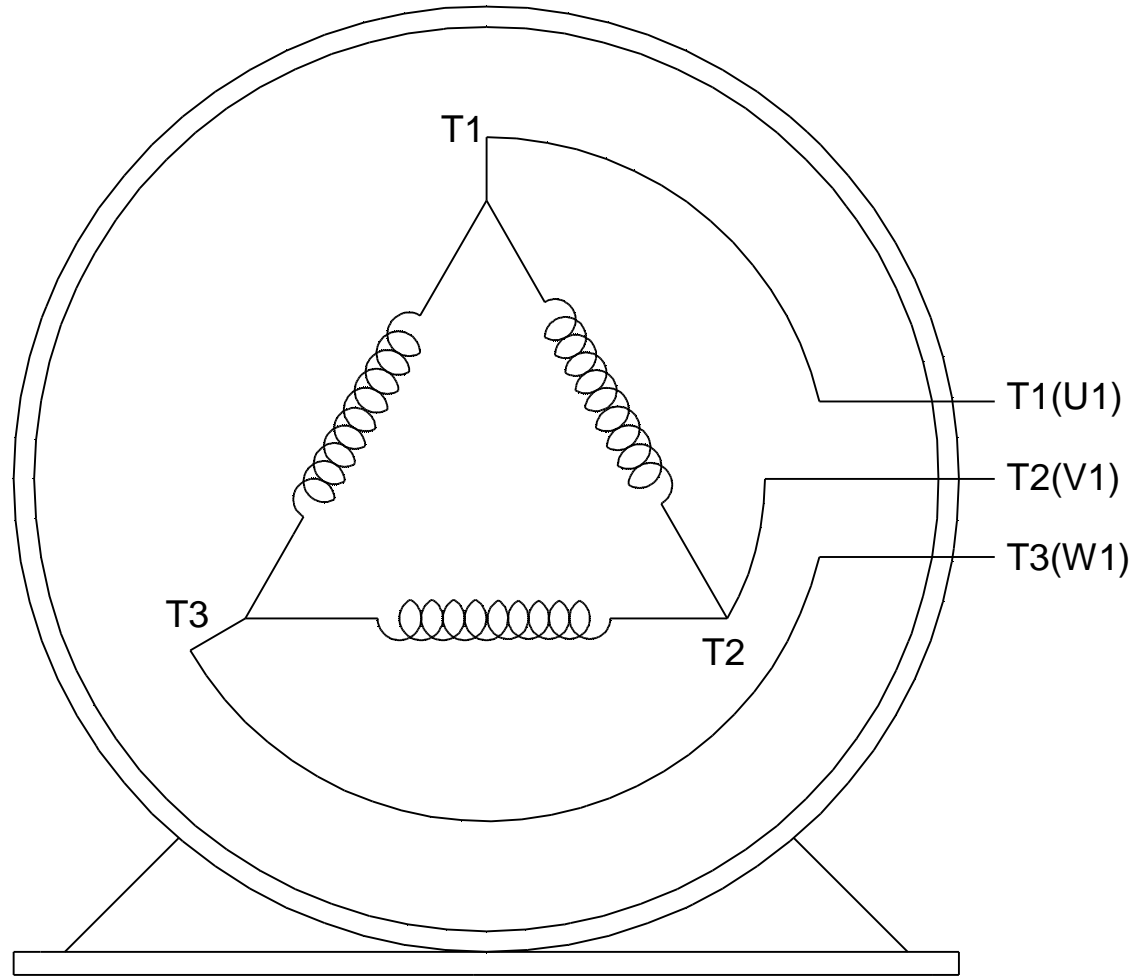
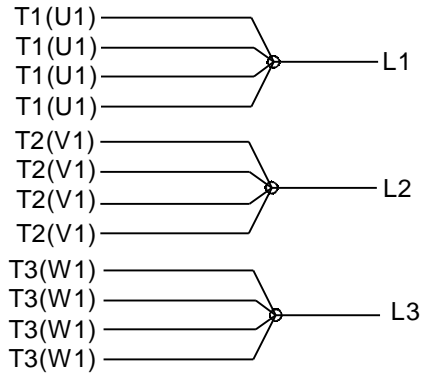


**IF MOTOR HAS 6 LEADS**



A-9806 DECAL IF CALLED FOR

**IF MOTOR HAS 12 LEADS**



**VIEW OF TERMINAL END**

|  |                           |                           |  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
|--|---------------------------|---------------------------|--|---------------------------|-----------------------------------|----------------------------------|------------------------|-----------|--------------|----|------|--------|---------|-----|-------|---------|--|------|--------|----------|--|-------|---------|-----------|--|---------------------------|
| DRAWING REVISION<br><b>L</b>   | REVISION BY<br><b>AJW</b> | DATE<br><b>05-04-2015</b> | TOLERANCES UNLESS OTHERWISE SPECIFIED:   | DRAWN BY<br><b>DRS</b>    | <b>Regal Beloit America, Inc.</b> |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| ECO<br><b>ECO-0077067</b>  | APPROVED BY<br><b>EWH</b> | DATE<br><b>05-05-2015</b> | <table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table> | <u>DEC.</u>               |                                   |                                  | <u>INCH</u>            | <u>mm</u> | <u>ANGLE</u> | .X | ±0.1 | [±2.5] | ±7' 30" | .XX | ±0.02 | [±0.51] |  | .XXX | ±0.005 | [±0.127] |  | .XXXX | ±0.0005 | [±0.0127] |  | DATE<br><b>09-27-1996</b> |
| <u>DEC.</u>  | <u>INCH</u>               | <u>mm</u>                 | <u>ANGLE</u>   |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .X   | ±0.1                      | [±2.5]                    | ±7' 30"  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XX  | ±0.02                     | [±0.51]                   |  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XXX   | ±0.005                    | [±0.127]                  |  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XXXX  | ±0.0005                   | [±0.0127]                 |  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| ECO DESCRIPTION<br><b>UPDATED TO SOLIDWORKS</b>  |                           |                           | APPROVED BY<br><b>GK</b>   | DATE<br><b>09-30-1996</b> | MATERIAL                          | PROCESS/FINISH                   |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| 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. |                           |                           | REMOVE BURRS & BREAK SHARP<br>EDGES: .003/.015 [.076/.381] X 45°<br>CORNER FILLETS: R.02 [.51]<br>MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$<br>mm SHOWN IN [BRACKETS]   | REFERENCE                 | SIZE<br><b>A</b>                  | DRAWING NUMBER<br><b>EE7300U</b> | SHEET<br><b>1 OF 1</b> |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
|  |                           |                           |  | THIRD ANGLE PROJECTION    |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |

**CERTIFICATION DATA SHEET**

**Model#:** 449TTFS6390 AB **WINDING#:** T449660 NONE 1  
**CONN. DIAGRAM:** A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS517520-2875

**TYPICAL MOTOR PERFORMANCE DATA**

| HP  | KW  | SYNC. RPM | F.L. RPM | FRAME    | ENCLOSURE | KVA CODE | DESIGN |
|-----|-----|-----------|----------|----------|-----------|----------|--------|
| 300 | 224 | 1200      | 1190     | 447/449T | TEFC      | G        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE      | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|-----------------|------------|------|------|-------|-----------|
| 3  | 60 | 460   | 362     | ACROSS THE LINE | CONTINUOUS | H1   | 1.15 | 40    | 3300      |

| FULL LOAD EFF: 95.8 | 3/4 LOAD EFF: 96.2 | 1/2 LOAD EFF: 95.8 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 81    | 3/4 LOAD PF: 78    | 1/2 LOAD PF: 70    | 95.4     | SQ CAGE IND RUN | 122          |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
|-------------|-------------------|----------------|----------------|-------------|
| 1324 LB-FT  | 2200              | 2750 LB-FT 208 | 3250 LB-FT 245 | 85          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2  | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|-----------|-----------------|--------------|-------------------|
| 75 dBA                 | 85 dBA      | 169 LB-FT^2 | - LB-FT^2 | 25 SEC.         | 2            | 3700 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 (ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | OPE  |            |            |            |             |                         |                |
| ROLLER   | BALL | POLYREX EM | T          | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| NU319    | 6318 |            |            |            |             |                         |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                  |
| NONE              | NOT        | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS       |

If Inverter equals NONE, contact factory for further information

\*  
N  
O  
T  
E  
S  
\*

|                           |
|---------------------------|
| INVERTER TORQUE: NONE     |
| 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    |

DATE: 06/21/2017 07:14:40 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

**Data Sheet**

**Date:** 19-06-2017  
**Customer:** \_\_\_\_\_  
**Attention:** \_\_\_\_\_  
**Submitted by:** FAREEDA DUDEKULA



449TTFS6390

**Submittal**

Data @ **460 V**

**Motor Load Data**

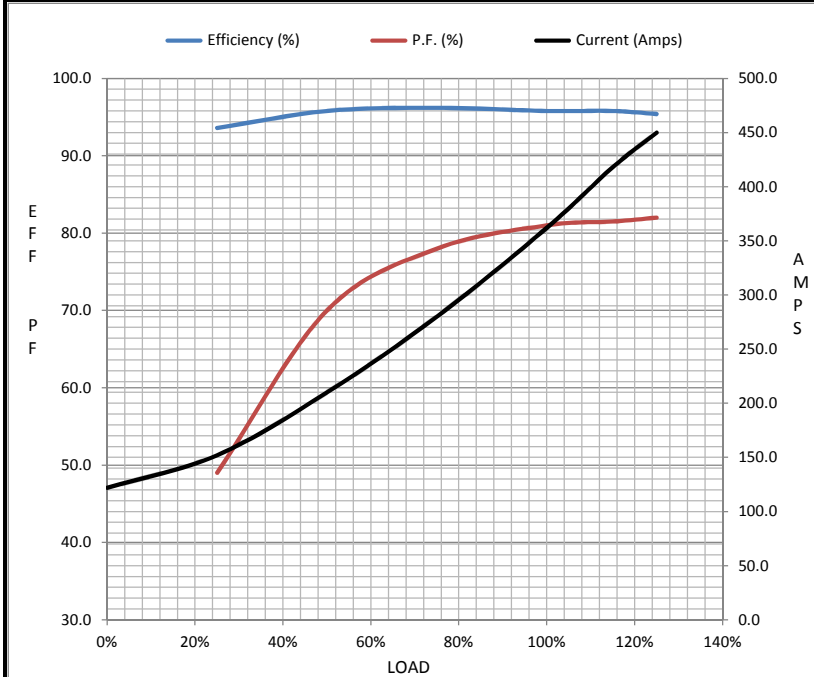
| Load           | 0%   | 25%  | 50%  | 75%  | 100%  | 115%  | 125%  | LR    |
|----------------|------|------|------|------|-------|-------|-------|-------|
| Current (Amps) | 122  | 152  | 210  | 280  | 362   | 418   | 450   | 2,200 |
| Torque (ft-lb) | 0.00 | 330  | 660  | 992  | 1,324 | 1,525 | 1,655 | 2,750 |
| RPM            | 1200 | 1198 | 1195 | 1192 | 1190  | 1,188 | 1185  | 0     |
| Efficiency (%) |      | 93.6 | 95.8 | 96.2 | 95.8  | 95.8  | 95.4  |       |
| P.F. (%)       | 3.5  | 49.0 | 70.0 | 78.0 | 81.0  | 81.5  | 82.0  | 32.0  |

**Motor Speed Data**

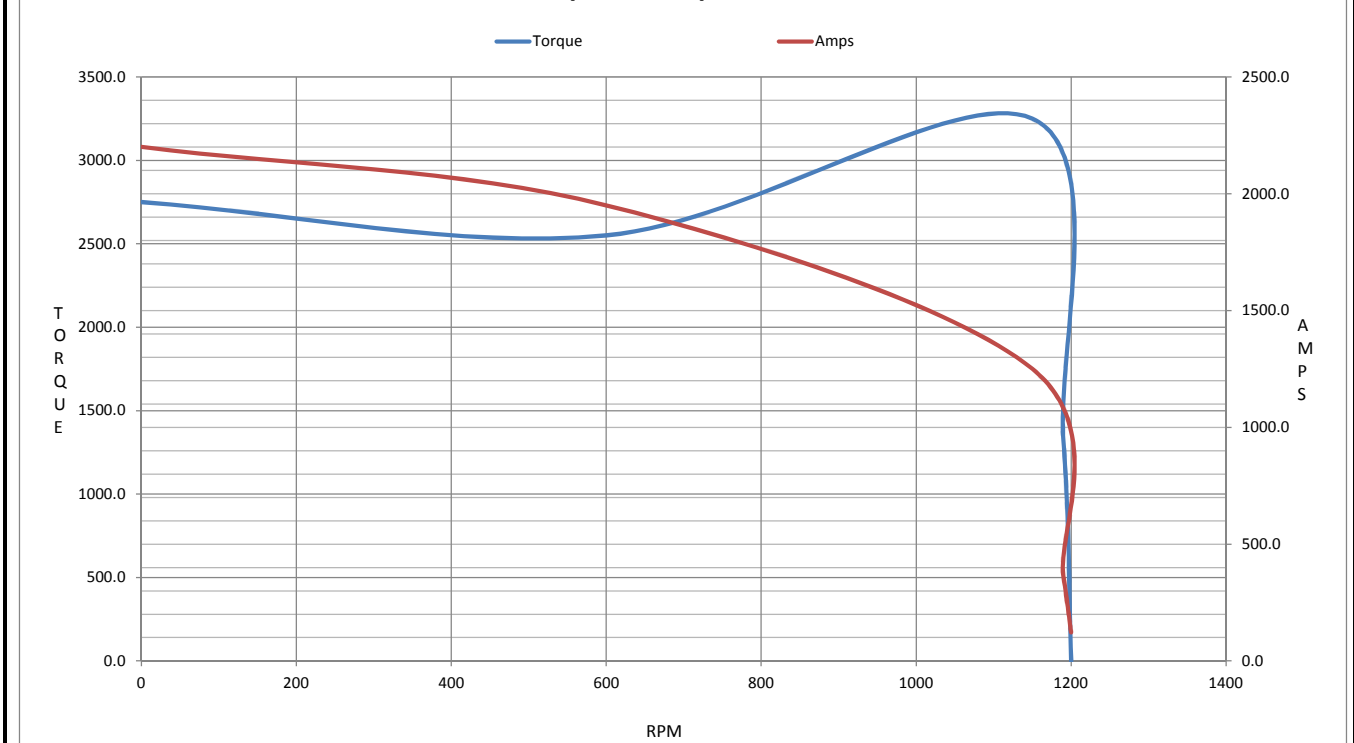
|                | LR    | Pull-Up | BD    | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM)    | 0     | 600     | 1150  | 1190  | 1200 |
| Current (Amps) | 2,200 | 1,950   | 1,250 | 362   | 122  |
| Torque (ft-lb) | 2,750 | 2,550   | 3,250 | 1,324 | 0.00 |

**Information Block**

|                             |                        |        |        |        |
|-----------------------------|------------------------|--------|--------|--------|
| HP                          | 300.0                  |        |        |        |
| Sync. RPM                   | 1200                   |        |        |        |
| Frame                       | 449                    |        |        |        |
| Enclosure                   | TEFC                   |        |        |        |
| Construction                | TFN                    |        |        |        |
| Voltage                     | 460 V                  |        |        |        |
| Frequency                   | 60 Hz                  |        |        |        |
| Design                      | B                      |        |        |        |
| LR Code letter              | G                      |        |        |        |
| Service Factor              | 1.15                   |        |        |        |
| Temp Rise @ FL              | 85 ° C                 |        |        |        |
| Duty                        | CONT                   |        |        |        |
| Ambient                     | 40 ° C                 |        |        |        |
| Elevation                   | 1,000 feet             |        |        |        |
| Rotor/Shaft wk <sup>2</sup> | 169 Lb-Ft <sup>2</sup> |        |        |        |
| Ref Wdg                     | T449660 NONE           |        |        |        |
| Sound Pressure @ 1M         | 75 dBA                 |        |        |        |
| VFD Rating                  | NONE                   |        |        |        |
| Outline Dwg                 | B-SS517520-2875        |        |        |        |
| Conn. Diag                  | A-EE7300U              |        |        |        |
| Additional Specifications:  |                        |        |        |        |
| 0                           |                        |        |        |        |
| 365THFS8036                 |                        |        |        |        |
| EQUIV CKT (OHMS / PHASE)    |                        |        |        |        |
| R1                          | R2                     | X1     | X2     | Xm     |
| 0.0060                      | 0.0070                 | 0.0710 | 0.1490 | 1.9670 |



**Speed - Torque Curve**



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 449TTFS6390

(Model No. may contain prefix and/or suffix characters)

Catalog No : E284

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**