

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 326TTFCA6028

Catalog No: GT1237

Globetrotter® General Purpose Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 326TC Frame, TEFC



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**RegalRexnord**

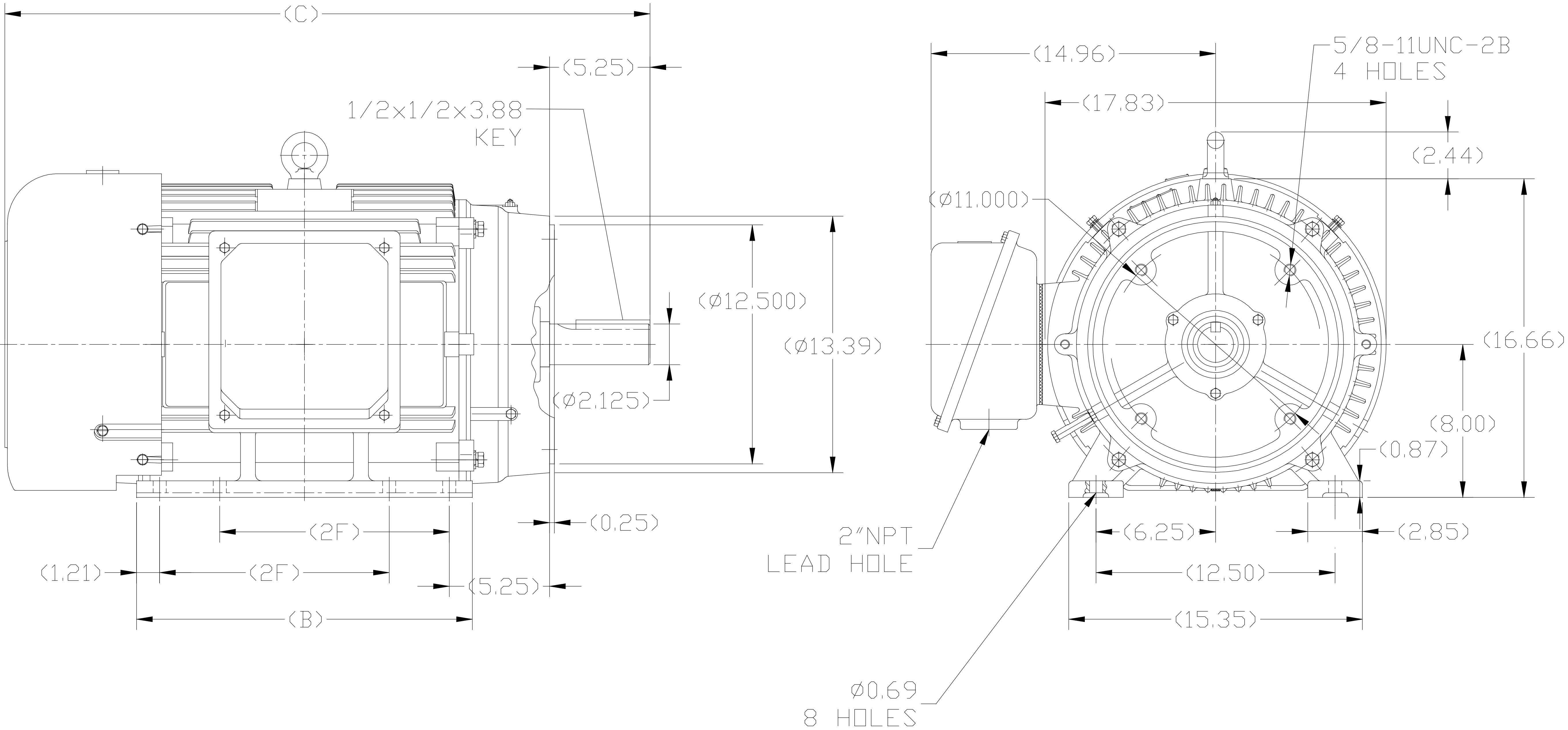
### Nameplate Specifications

|                        |                     |                            |                             |
|------------------------|---------------------|----------------------------|-----------------------------|
| Phase                  | 3                   | Output HP                  | 50 & 40 Hp                  |
| Output KW              | 37.0 & 30.0 kW      | Voltage                    | 230/460 & 190/380 V         |
| Speed                  | 1780 & 1480 rpm     | Service Factor             | 1.15 & 1.0                  |
| Frame                  | 326TC               | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection       | Efficiency                 | 94.5 & 93.6 %               |
| Ambient Temperature    | 40 °C               | Frequency                  | 60 & 50 Hz                  |
| Current                | 119/59.5 & 114/57 A | Power Factor               | 83                          |
| Duty                   | Continuous          | Insulation Class           | F                           |
| Design Code            | B                   | KVA Code                   | G                           |
| Drive End Bearing Size | 6312                | Opp Drive End Bearing Size | 6311                        |
| UL                     | Recognized          | CSA                        | Y                           |
| CE                     | Y                   | IP Code                    | 43                          |
| Number of Speeds       | 1                   |                            |                             |

### Technical Specifications

|                       |                             |                    |                 |
|-----------------------|-----------------------------|--------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method    | Across The Line |
| Poles                 | 4                           | Rotation           | Reversible      |
| Resistance Main       | .113 Ohms                   | Mounting           | Rigid Base      |
| Motor Orientation     | Horizontal                  | Drive End Bearing  | Ball            |
| Opp Drive End Bearing | Ball                        | Frame Material     | Cast Iron       |
| Shaft Type            | T                           | Overall Length     | 33.86 in        |
| Shaft Diameter        | 2.125 in                    | Shaft Extension    | 5.25 in         |
| Assembly/Box Mounting | F1/F2 CAPABLE               |                    |                 |
| Outline Drawing       | SS620300-326TC              | Connection Drawing | A-EE7308AA      |

SS620300



|       |       |       |       |
|-------|-------|-------|-------|
| 324TC | 32.68 | 16.38 | 10.50 |
| 326TC | 33.86 | 17.56 | 12.00 |
| FRAME | C     | B     | 2F    |

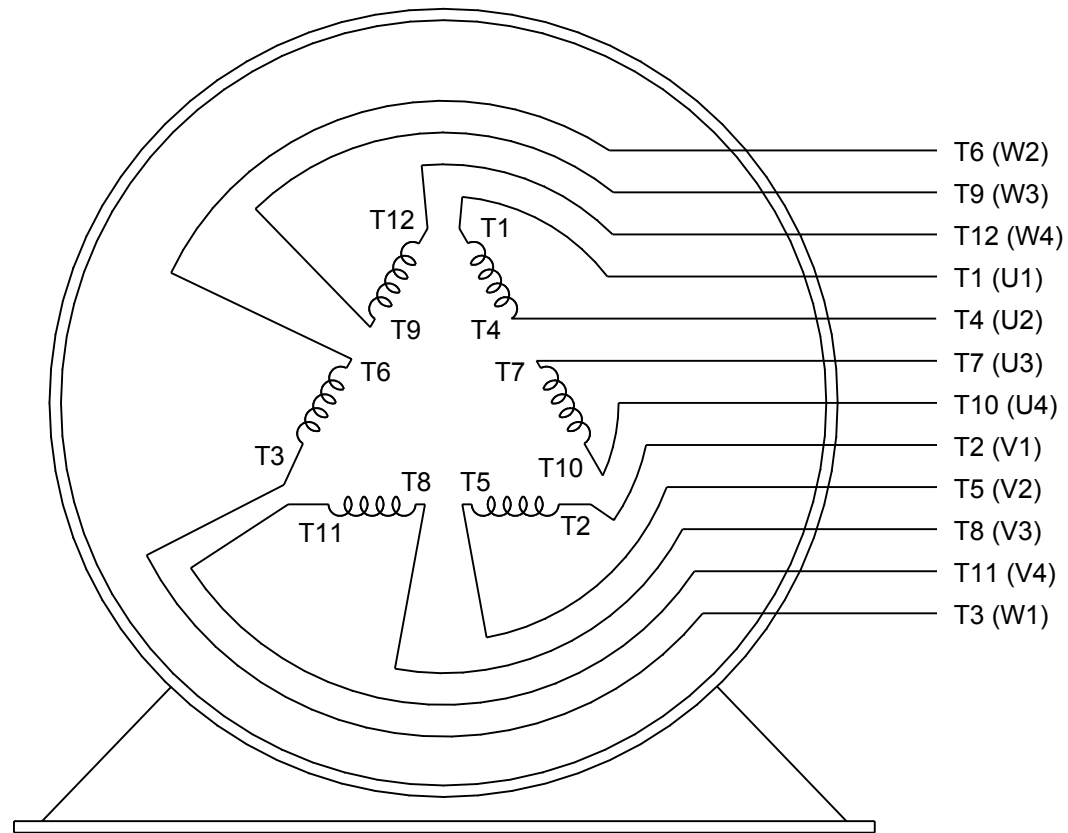
|                                                                                                                                                                                                                                     |                                         |  |             |                                |        |                                                                                                                |        |                    |             |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--|-------------|--------------------------------|--------|----------------------------------------------------------------------------------------------------------------|--------|--------------------|-------------|------|
|                                                                                                                                                                                                                                     |                                         |  |             | TOLERANCES<br>UNLESS SPECIFIED |        |  REGAL-BELOIT CORPORATION |        | DRAWN SY 4-21-2010 |             |      |
|                                                                                                                                                                                                                                     |                                         |  |             | DEC.                           | INCHES |                                                                                                                |        | CHK HZJ 4-21-2010  |             |      |
|                                                                                                                                                                                                                                     |                                         |  |             | .X                             | ±.1    |                                                                                                                |        | APPD CL 4-21-2010  |             |      |
|                                                                                                                                                                                                                                     |                                         |  |             | .XX                            | ±.03   |                                                                                                                |        | SCALE 1=7          |             |      |
|                                                                                                                                                                                                                                     |                                         |  |             | .XXX                           | ±.005  | TITLE OUTLINE<br>324/326TC FR-TEFC-CAST IRON                                                                   |        | REF                |             |      |
| E                                                                                                                                                                                                                                   | FRAME SIZE- 324TC WAS 342TC ECD-0124804 |  | WGJ 7/22/17 | EMH                            | .XXXX  |                                                                                                                |        | ±.0005             | MAT'L.      |      |
| NO.                                                                                                                                                                                                                                 | REVISION                                |  | BY & DATE   | CHK                            | ANG    | ±1/2                                                                                                           | FINISH |                    | PREV        |      |
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|                                                                                                                                                                                                                                     |                                         |  |             | DIST                           |        |                                                                                                                |        | B                  | SS620300    | E    |



## LOW VOLTAGE



## HIGH VOLTAGE



## VIEW OF TERMINAL END

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| DRAWING REVISION<br>K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REVISION BY<br>AJW    | DATE<br>07-17-2015 |
| ECO<br>ECO-0081632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | APPROVED BY<br>T. VUE | DATE<br>07-17-2015 |
| ECO DESCRIPTION<br>REV'D IEC MARKINGS PER IEC 60034-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                    |
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|                           |
|---------------------------|
| DRAWN BY<br>LZ            |
| DATE<br>01-12-1994        |
| APPROVED BY<br>GK         |
| DATE<br>01-14-1994        |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |

|                                                                                                                  |                            |                 |
|------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
|  Regal Beloit America, Inc. |                            |                 |
| DESCRIPTION<br><b>CONN DIAGRAM-EXTERNAL</b><br>3Ø-2/1 DELTA-12 LEADS                                             |                            |                 |
| MATERIAL                                                                                                         | PROCESS/FINISH             |                 |
| SIZE<br>A                                                                                                        | DRAWING NUMBER<br>EE7308AA | SHEET<br>1 OF 1 |

## CERTIFICATION DATA SHEET

Model#: 326TTFCA6028 AA  
 CONN. DIAGRAM: A-EE7308AA  
 OUTLINE: B-SS620300

WINDING#: CHT32640003 NONE 1  
 ASSEMBLY: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP    | KW    | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-------|-----------|-----------|-------|-----------|----------|--------|
| 50&40 | 37&30 | 1800      | 1780&1480 | 326TC | TEFC      | G        | B      |

| PH | Hz    | VOLTS               | FL AMPS             | START TYPE         | DUTY           | INSL | S.F      | AMB°C | ELEVATION |
|----|-------|---------------------|---------------------|--------------------|----------------|------|----------|-------|-----------|
| 3  | 60/50 | 230/460#190/<br>380 | 119/59.5&114/<br>57 | ACROSS THE<br>LINE | CONTINUOU<br>S | F7   | 1.15/1.0 | 40    | 3300      |

| FULL LOAD EFF:<br>94.5&93.6 | 3/4 LOAD EFF: 94.5 | 1/2 LOAD EFF: 94.1 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
|-----------------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 83&83         | 3/4 LOAD PF: 80    | 1/2 LOAD PF: 71.5  | 93       | SQ CAGE IND RUN | 42 / 21      |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 147.5 LB-FT | 712 / 356         | 255 LB-FT 173 | 395 LB-FT 265 | 80          |

| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
|---------------------------|-------------|------------|-----------|-----------------|-----------------|----------------------|
| 65 dBA                    | 75 dBA      | 12 LB-FT^2 | - LB-FT^2 | 20 SEC.         | 2               | 825 LBS.             |

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

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | DRIP<br>COVER | SCREENS | PAINT            |
|--------------------|---------------------|---------------|-------------|----------------|-----------------------|---------------|---------|------------------|
| C-FACE             | STANDARD            | RIGID         | HORIZONTAL  | FALSE          | NONE                  | FALSE         | NONE    | BLUE<br>(ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT<br>MATERIAL          | FRAME<br>MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE       | OPE  |            |            |            |             |                            |                   |
| BALL     | BALL |            |            |            |             |                            |                   |
| 6312     | 6311 | POLYREX EM | T          | NONE       | NONE        | 1045 HOT<br>ROLLED (C-204) | CAST IRON         |

| 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

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

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DATE: 06/21/2017 07:02:51 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 15-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



326TTFCA6028

Submittal

Data @ 460 V

## Motor Load Data

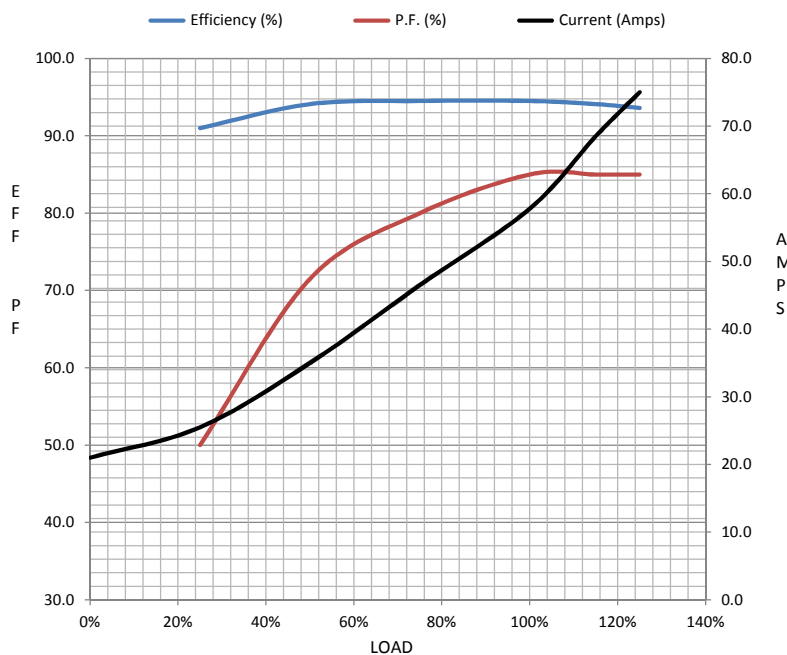
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 21.0 | 25.5 | 35.0 | 46.5 | 57.8 | 68.5  | 75.0 | 356  |  |
| Torque (ft-lb) | 0.00 | 36.5 | 73.5 | 110  | 148  | 170   | 185  | 255  |  |
| RPM            | 1800 | 1795 | 1790 | 1785 | 1780 | 1,775 | 1770 | 0    |  |
| Efficiency (%) |      | 91.0 | 94.1 | 94.5 | 94.5 | 94.1  | 93.6 |      |  |
| P.F. (%)       | 4.5  | 50.0 | 71.5 | 80.0 | 85.0 | 85.0  | 85.0 | 34.0 |  |

## Motor Speed Data

|                | LR  | Pull-Up | BD   | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM)    | 0   | 970     | 1715 | 1780  | 1800 |
| Current (Amps) | 356 | 308     | 208  | 57.8  | 21.0 |
| Torque (ft-lb) | 255 | 210     | 395  | 148   | 0.00 |

## Information Block

|                             |                         |        |        |         |
|-----------------------------|-------------------------|--------|--------|---------|
| HP                          | 50.0                    |        |        |         |
| Sync. RPM                   | 1800                    |        |        |         |
| Frame                       | 326                     |        |        |         |
| Enclosure                   | TEFC                    |        |        |         |
| Construction                | TFC                     |        |        |         |
| Voltage                     | 230/460#190/38(V        |        |        |         |
| Frequency                   | 60 Hz                   |        |        |         |
| Design                      | B                       |        |        |         |
| LR Code letter              | G                       |        |        |         |
| Service Factor              | 1.15                    |        |        |         |
| Temp Rise @ FL              | 80 ° C                  |        |        |         |
| Duty                        | CONT                    |        |        |         |
| Ambient                     | 40 ° C                  |        |        |         |
| Elevation                   | 1,000 feet              |        |        |         |
| Rotor/Shaft wk <sup>2</sup> | 12.0 Lb-Ft <sup>2</sup> |        |        |         |
| Ref Wdg                     | CHT32640003 NONE        |        |        |         |
| Sound Pressure @ 1M         | 65 dBA                  |        |        |         |
| VFD Rating                  | NONE                    |        |        |         |
| Outline Dwg                 | B-SS620300              |        |        |         |
| Conn. Diag                  | A-EE7308AA              |        |        |         |
| Additional Specifications:  |                         |        |        |         |
| 0                           |                         |        |        |         |
| 365THFS8036                 |                         |        |        |         |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |         |
| R1                          | R2                      | X1     | X2     | Xm      |
| 0.0770                      | 0.0510                  | 0.3980 | 0.6930 | 15.5630 |



## Speed -Torque Curve

