

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TSTDP16014

Catalog No: U910A

60 HP General Purpose Motor, 3 phase, 3600 RPM, 200 V, 326TS Frame, ODP
General Purpose Motors



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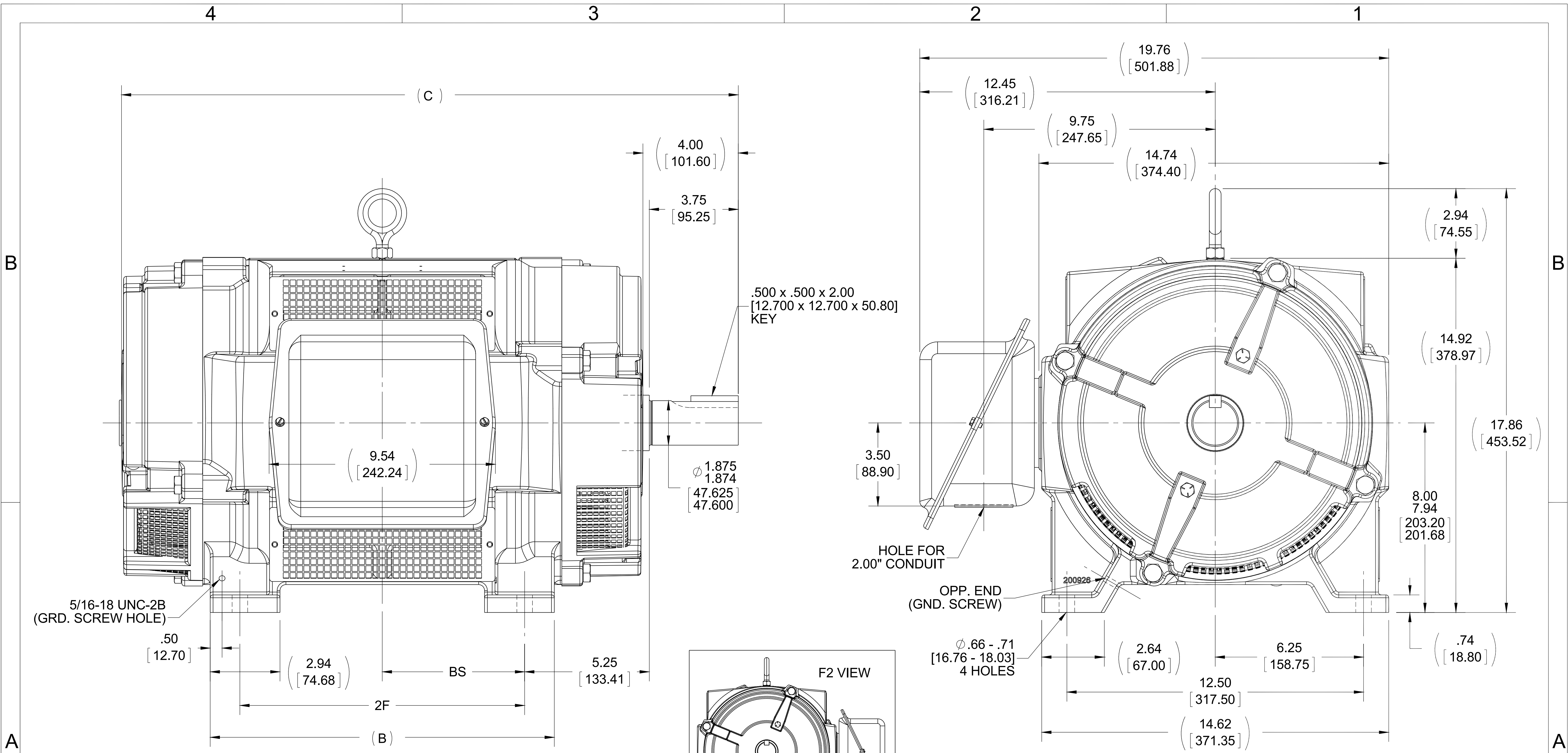
RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|-------------------|
| Output HP | 60 Hp | Output KW | 45.0 kW |
| Frequency | 60 Hz | Voltage | 200 V |
| Current | 155.0 A | Speed | 3555 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 94.1 % | Power Factor | 88.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 326TS | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6311 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .13 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Overall Length | 26.00 in |
| Frame Length | 14.50 in | Shaft Diameter | 1.875 in |
| Shaft Extension | 4.00 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | A-EE7300U | Outline Drawing | B-SS207989-1512 |



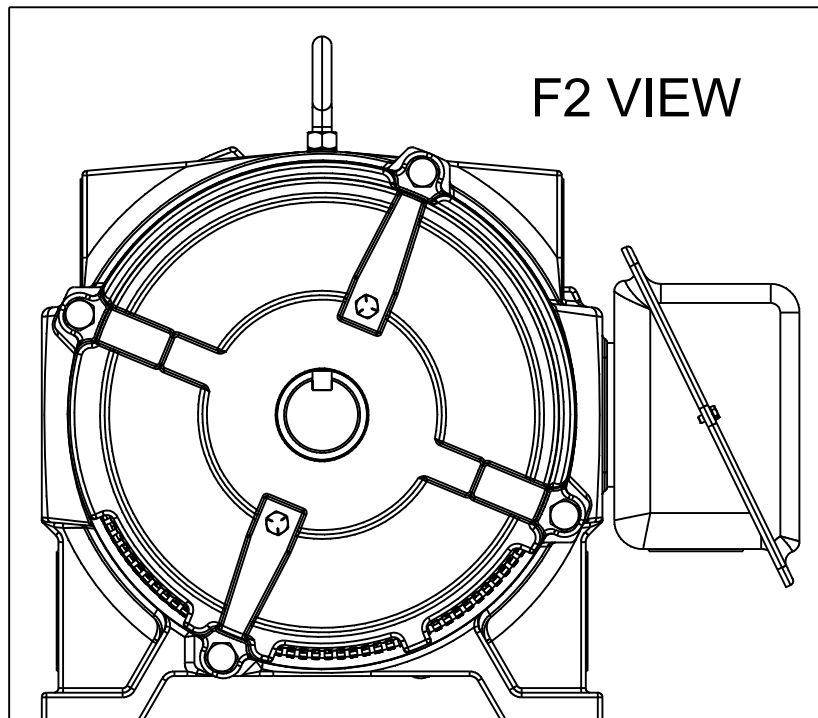
5/16-18 UNC-2B
(GRD. SCREW HOLE)

.500 x .500 x 2.00
[12.700 x 12.700 x 50.80]
KEY

HOLE FOR
2.00" CONDUIT

OPP. END
(GND. SCREW)

Ø .66 - .71
[16.76 - 18.03]
4 HOLES



- 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. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| DASH | FRAME | B | C | 2F | BS |
|------|-------|-------------------|-------------------|-------------------|------------------|
| 1362 | 324TS | 13.00 [330.20] | 24.50 [622.30] | 10.50 [266.70] | 5.25 [133.35] |
| 1512 | 326TS | 14.50 [368.30] | 26.00 [660.40] | 12.00 [304.80] | 6.00 [152.40] |

| | | |
|---|---------------------|--------------------|
| DRAWING REVISION F | REVISION BY MSG | DATE 10-01-2015 |
| ECO ECO-0085987 | APPROVED BY TVUE | DATE 10-05-2015 |
| ECO DESCRIPTION ADDED F2 VIEW | | |
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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]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 INCH mm 5.1
mm SHOWN IN [BRACKETS]

| | |
|-----------------------|------------------------|
| DRAWN BY REP | DATE 03-16-2012 |
| APPROVED BY TB | DATE 03-15-12 |
| REFERENCE SS200079 | THIRD ANGLE PROJECTION |

| | |
|---|-----------------------------------|
| REGAL ™ Regal Beloit America, Inc. | |
| DESCRIPTION OUTLINE 320TS FR. - DRIP PROOF | |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS207989 |
| SHEET 1 OF 1 | |

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 L | REVISION BY AJW | DATE 05-04-2015 | TOLERANCES UNLESS OTHERWISE SPECIFIED: | DRAWN BY DRS | Regal Beloit America, Inc. | | | | | | | | | | | | | | | | | | | |
| ECO ECO-0077067 | APPROVED BY EWH | DATE 05-05-2015 | <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] | |
| <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 UPDATED TO SOLIDWORKS | | | REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS] | APPROVED BY GK | DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE | | | | | | | | | | | | | | | | | | | |
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| | | | | REFERENCE | SIZE A | DRAWING NUMBER EE7300U | SHEET 1 OF 1 | | | | | | | | | | | | | | | | | |



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 326TSTD16014
 CONN. DIAGRAM: A-EE7300U CAT #: U910A
 OUTLINE: B-SS207989-1512 CUSTOMER PART #: _____
 WINDING: K2862131 NONE 8 MOUNTING: F1/F2 CAPABLE
 SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|----|----------|--------|-------|-----------|------|----------|--------|
| 60 | 45 | 3600 | 3555 | 326TS | DP | TDP | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|----|-------|------|-----------------|------|------|------|-----|-------|
| 3 | 60 | 200 | 155 | ACROSS THE LINE | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 94.1 | 3/4 LD EFF | 94.5 | 1/2 LD EFF | 94.5 | GTD EFF | ELECT. TYPE |
|----------|------|------------|------|------------|------|---------|-----------------|
| F.L. PF | 88.5 | 3/4 LD PF | 86.0 | 1/2 LD PF | 80.0 | 93.6 | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|-------------|-----------------|----------------|----------------|----------------|
| 89.0 LB-FT | 966 | 130 LB-FT 146% | 240 LB-FT 270% | 35 |

| @ 3 FT. | POWER | ROTOR WK ² | MAX. LOAD WK ² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---------|--------|------------------------|---------------------------|-----------------|-------------|-----------|
| 82 dBA | 91 dBA | 3.3 LB-FT ² | 0 LB-FT ² | 15 SEC. | 0 | 475 LB. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|---------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | NO | NONE | NO | NONE | BLUE (ENAMEL) |

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

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------|------------|-----------|-----------|-------------|---------|---------------|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.016 | 0.009 | 0.074 | 0.06 | 2.508 | 0.150 | ODE |

| | | | | | | |
|---------------------------------|---------------------------|--|--|--|--|--|
| * N O T E S * | INVERTER TORQUE: NONE | | | | | |
| | INV. HP SPEED RANGE: NONE | | | | | |
| | ENCODER: NONE | | | | | |
| | NONE | | | | | |
| | NONE NONE PPR | | | | | |

| | |
|-------------------------------|-------------------------|
| PREPARED BY: FAREEDA DUDEKULA | BRAKE: NONE |
| DATE: 9/10/2018 | NONE NONE |
| | FT-LB: NA |
| | VOLTAGE: NONE HZ: |
| FORM: 3531 REV_4 2/27/06 | UL: V-INS, CONST UL REC |

Data Sheet

326TSTD16014

Date: 11/29/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 200 V

Motor Load Data

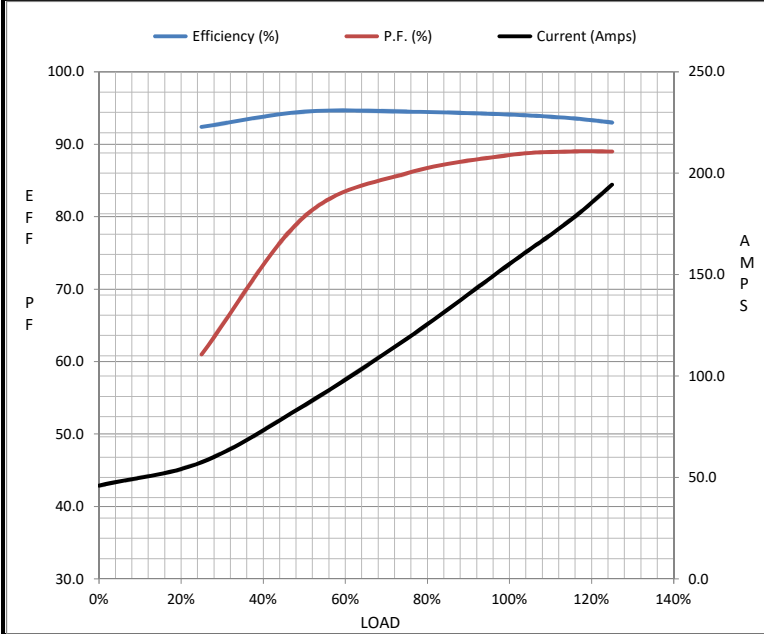
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 46.0 | 57.5 | 85.6 | 118 | 155 | 177 | 194 | 966 |
| Torque (ft-lb) | 0.00 | 22.0 | 44.0 | 66.5 | 89.0 | 102 | 112 | 130 |
| RPM | 3600 | 3590 | 3580 | 3568 | 3555 | 3,545 | 3540 | 0 |
| Efficiency (%) | | 92.4 | 94.5 | 94.5 | 94.1 | 93.6 | 93.0 | |
| P.F. (%) | 7.0 | 61.0 | 80.0 | 86.0 | 88.5 | 89.0 | 89.0 | 33.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 1800 | 3300 | 3555 | 3600 |
| Current (Amps) | 966 | 863 | 610 | 155 | 46.0 |
| Torque (ft-lb) | 130 | 115 | 240 | 89.0 | 0.00 |

Information Block

| | | | | |
|-----------------------------|------------------------|--------|--------|--------|
| HP | 60.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 326 | | | |
| Enclosure | DP | | | |
| Construction | TDS | | | |
| Voltage | 200 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 35 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 3.3 Lb-Ft ² | | | |
| Ref Wdg | K2862131 NONE | | | |
| Sound Pressure @ 1M | 82 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | B-SS207989-1512 | | | |
| Conn. Diag | A-EE7300U | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0160 | 0.0090 | 0.0740 | 0.0600 | 2.5080 |



Speed - Torque Curve

