

PRODUCT INFORMATION PACKET

Model No: 326TTFS6026

Catalog No: E210

50 HP General Purpose Motor, 3 phase, 1800 RPM, 230/460 V, 326T Frame, TEFC
General Purpose Motors



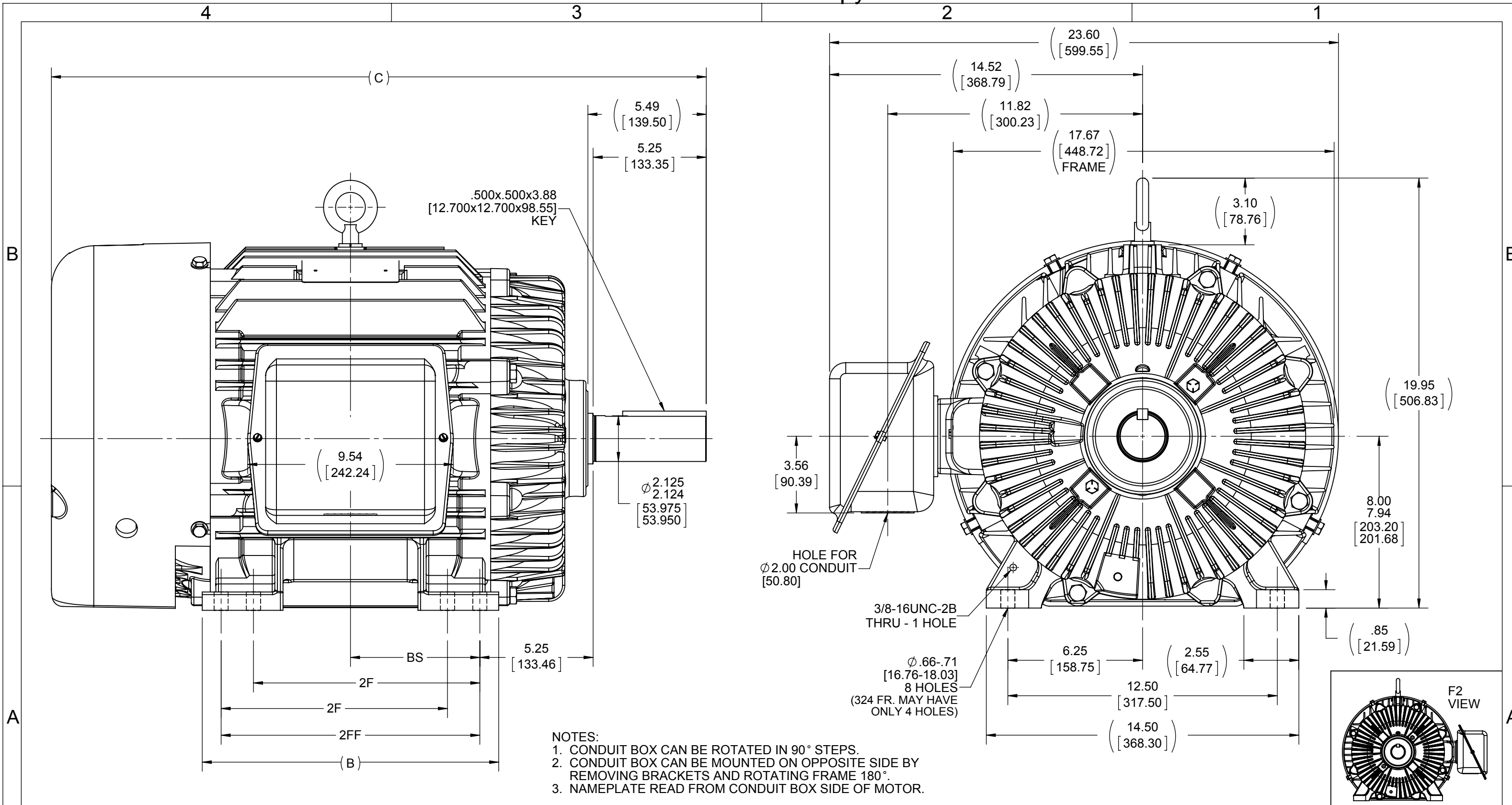
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Nameplate Specifications

| | | | |
|------------------------|---------------------|----------------------------|------------------------------------|
| Output HP | 50 Hp | Output KW | 37.0 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 120.0/60.0 A | Speed | 1775 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 94.5 % | Power Factor | 82 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Frame | 326T | Enclosure | Totally Enclosed Fan Cooled |
| 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 | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .112 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 | 31.88 in |
| Frame Length | 14.50 in | Shaft Diameter | 2.125 in |
| Shaft Extension | 5.5 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7308 | Outline Drawing | B-SS28289-1450 |



| | | | | | | | | | | | | | | | | | |
|--|--|--------------------|--|--------------------|--|--|--|--------------------|--|--|--|---------------|--|------------------------|--|----------------|--|
| DRAWING REVISION W | | REVISION BY MSG | | DATE 10-28-2014 | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | DRAWN BY MLD | | Regal Beloit America, Inc. | | | | | | | |
| ECO ECO-0063392 | | APPROVED BY TB | | DATE 10-28-2014 | | 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] | | DATE 01-24-1996 | | | | | | | | | |
| ECO DESCRIPTION UPDATED TO NEW TITLE BLOCK COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS. | | | | | | 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] | | APPROVED BY ML | | DESCRIPTION 320T FR. - TEFC - CAST IRON - STEEL C'BOX | | | | | | | |
| DASH | | FRAME | | C | | B | | 2F | | 2FF | | BS | | MATERIAL | | PROCESS/FINISH | |
| 1150 | | 324T | | 28.88 [733.48] | | 13.75 [349.25] | | --- | | 10.50 [266.70] | | 5.25 [133.35] | | SIZE | | DRAWING NUMBER | |
| 1300 | | 324/326T | | 30.38 [771.58] | | 13.75 [349.25] | | 10.50 [266.70] | | 12.00 [304.80] | | 6.00 [152.40] | | B | | SS28289 | |
| 1450 | | 326T | | 31.88 [809.68] | | 15.00 [381.00] | | 12.00 [304.80] | | --- | | 6.75 [171.45] | | THIRD ANGLE PROJECTION | | SHEET 1 OF 1 | |
| 4 | | 3 | | 2 | | 1 | | 3 of 6 | | | | | | | | | |

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

| NO. | REVISION | BY & DATE | CHK | ANG | TOLERANCES UNLESS SPECIFIED | | FINISH | DRAWN RM 11/20/1990 | | | | |
|--|--|----------------|-----|-------|--------------------------------|--------|--------------------------|---------------------|--------|--------------------|-----------|--------|
| | | | | | DEC. | INCHES | | | | | | |
| 5 | CHG TO REGAL LOGO | SL 09/10/2015 | AB | | | | | CHK ML 11/21/1990 | | | | |
| 4 | REVISED IEC NOTATIONS | MSG 11/15/2011 | CMN | .X | ±.1 | | | APPD SAS 04/24/2003 | | | | |
| 3 | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010 | MJS | .XX | ±.02 | | TITLE CONNECTION DIAGRAM | SCALE 1=1 | | | | |
| 2 | ADDED THE OPTIONAL CORD CONNECTION MU46318 | RDH 04/24/2003 | DRS | .XXX | ±.005 | | 3Ø - DUAL VOLTAGE MOTOR | REF | | | | |
| 1 | REDRAWN | RM 11/20/1990 | | .XXXX | ±.0005 | | MAT'L. | FMF | | | | |
| | | | | | ±7'30" | | | 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 ee7308 | SIZE A | DRAWING NO. EE7308 | PAGE OF 5 | REV. 5 |
| | | | | | | | DIST WP | | | | | |



CERTIFICATION DATA SHEET

Model#: 326TTFS6026 GC
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS28289-1450

WINDING#: K3264168 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|----|-----------|----------|-------|-----------|----------|--------|
| 50 | 37 | 1800 | 1775 | 326T | TEFC | F | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|---------|-----------------|------------|------|------|-------|-----------|
| 3 | 60 | 230/460 | 120/60 | ACROSS THE LINE | CONTINUOUS | F3 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 94.5 | 3/4 LOAD EFF: 94.5 | 1/2 LOAD EFF: 94.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 82 | 3/4 LOAD PF: 79 | 1/2 LOAD PF: 71 | 94.1 | SQ CAGE IND RUN | 48 / 24 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 148 LB-FT | 670 / 335 | 250 LB-FT 169 | 340 LB-FT 230 | 75 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|-------------|-----------------|---------------|-------------------|
| 65 dBA | 75 dBA | 9.7 LB-FT^2 | 325 LB-FT^2 | 25 SEC. | 2 | 775 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 | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 6311 | | | | | | |

| 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

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|---------------------------|
| 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 07:17:14 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TFS6026

Submittal

Data @ 460 V

Motor Load Data

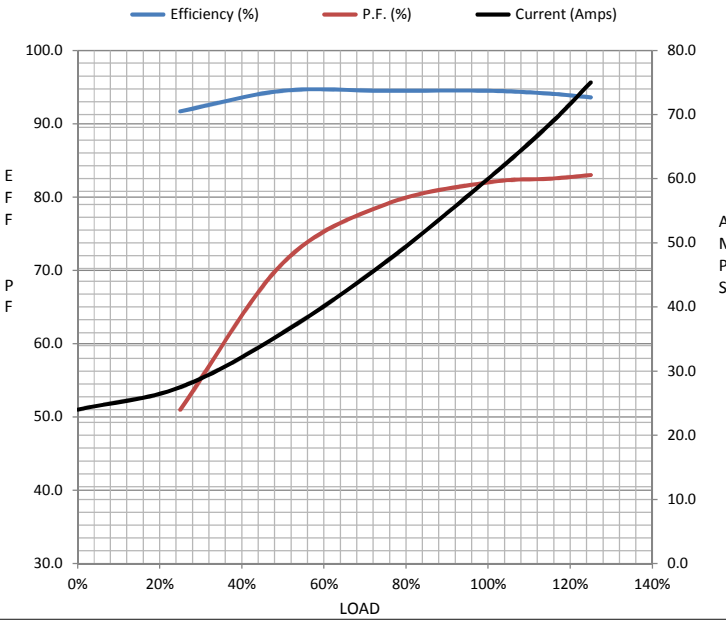
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 24.0 | 27.5 | 36.0 | 47.0 | 60.0 | 68.5 | 75.0 | 335 |
| Torque (ft-lb) | 0.00 | 36.6 | 73.5 | 111 | 148 | 170 | 185 | 250 |
| RPM | 1800 | 1795 | 1788 | 1782 | 1775 | 1,772 | 1770 | 0 |
| Efficiency (%) | | 91.7 | 94.5 | 94.5 | 94.5 | 94.1 | 93.6 | |
| P.F. (%) | 4.0 | 51.0 | 71.0 | 79.0 | 82.0 | 82.5 | 83.0 | 33.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1675 | 1775 | 1800 |
| Current (Amps) | 335 | 300 | 190 | 60.0 | 24.0 |
| Torque (ft-lb) | 250 | 230 | 340 | 148 | 0.00 |

Information Block

| | |
|-----------------------------|------------------------|
| HP | 50.0 |
| Sync. RPM | 1800 |
| Frame | 326 |
| Enclosure | TEFC |
| Construction | TFN |
| Voltage | 230/460 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | F |
| Service Factor | 1.15 |
| Temp Rise @ FL | 75 °C |
| Duty | CONT |
| Ambient | 40 °C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk ² | 9.7 Lb-Ft ² |
| Ref Wdg | K3264168 NONE |
| Sound Pressure @ 1M | 65 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS28289-1450 |
| Conn. Diag | A-EE7308 |



Additional Specifications:

| EQUIV CKT (OHMS / PHASE) | | | | |
|--------------------------|--------|--------|--------|---------|
| R1 | R2 | X1 | X2 | Xm |
| 0.0680 | 0.0620 | 0.4830 | 0.6480 | 11.0680 |

Speed -Torque Curve

