

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TTFS14046

Catalog No: Y1621

Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 326T Frame,
TEFC



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RegalRexnord

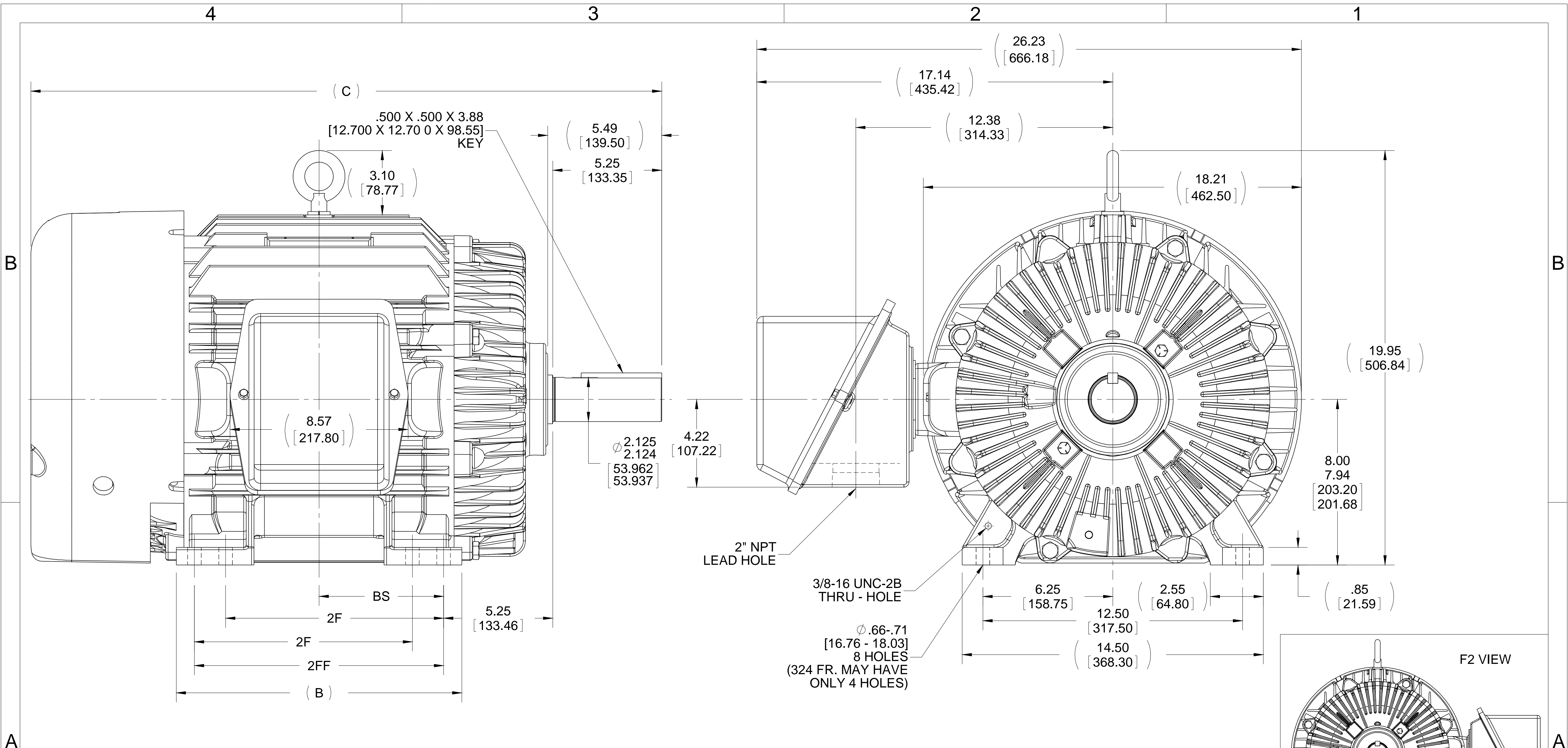


Nameplate Specifications

| | | | |
|------------------------|--------------------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 50 & 40 Hp |
| Output KW | 37.0 & 30.0 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1778 & 1478 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 326T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 93 & 92.4 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 122/61 & 119/59.5 A | Power Factor | 82 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6311 |
| UL | No | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|---|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Part Wdg Start Low Volt Only & Wye Start Delta Run |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .108 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 | 30.38 in |
| Frame Length | 13.00 in | Shaft Diameter | 2.125 in |
| Shaft Extension | 5.49 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7358 | Outline Drawing | B-SS28703-1300 |



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

| DASH | FRAME | B | C | 2F | 2FF | BS |
|------|--------|-------------------|-------------------|-------------------|-------------------|------------------|
| 1150 | 324T | 13.00 [330.20] | 28.88 [733.55] | - | 10.50 [266.70] | 5.25 [133.35] |
| 1300 | 324/6T | 13.75 [349.25] | 30.38 [771.65] | 10.50 [266.70] | 12.00 [304.80] | 6.00 [152.40] |
| 1450 | 326T | 15.00 [381.00] | 31.88 [809.75] | 12.00 [304.80] | 13.50 [342.90] | 6.75 [171.45] |

| | | |
|---|---------------------------|--------------------|
| DRAWING REVISION V | REVISION BY W. JOERGER | DATE 03-28-2015 |
| ECO ECO-0074425 | APPROVED BY E. HEIL | DATE 03-28-2015 |
| ECO DESCRIPTION CORRECTED FRAME/FOOT HOLE NUMBER NOTE | | |
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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 [0.51]
 MACHINED SURFACES: 200 INCH mm 5.1
 mm SHOWN IN [BRACKETS]

| |
|------------------------|
| DRAWN BY RM |
| DATE 01-12-1993 |
| APPROVED BY GK |
| DATE 01-12-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

REGAL™ Regal Beloit America, Inc.

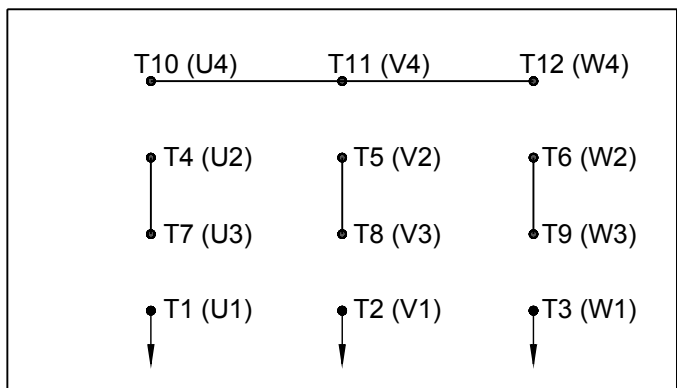
DESCRIPTION
OUTLINE
320T FR. - BB - TS - TEFC

MATERIAL PROCESS/FINISH

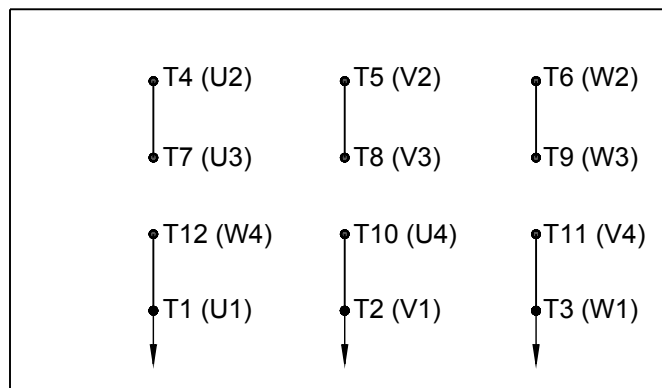
SIZE **B** DRAWING NUMBER **SS28703** SHEET 1 OF 1

HIGH VOLTAGE

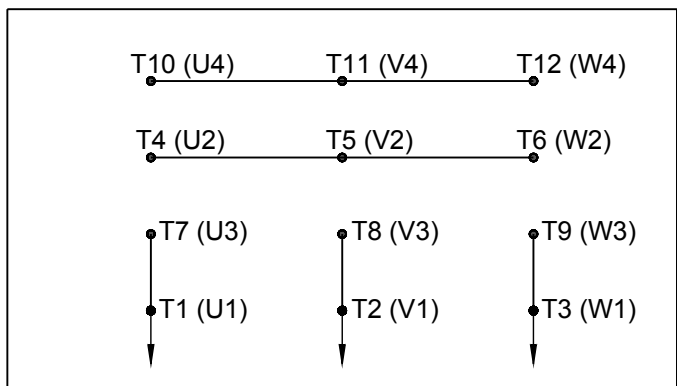
WYE START



DELTA RUN

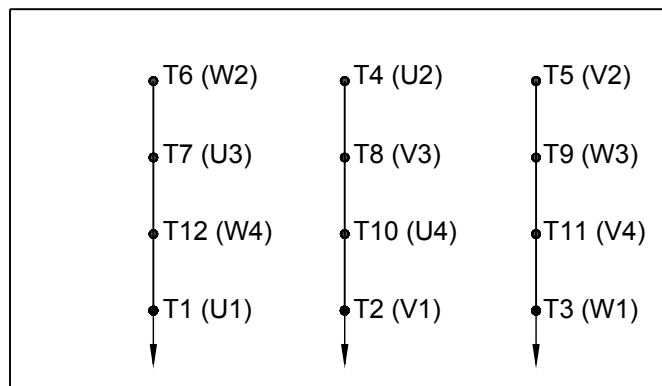


WYE START



LOW VOLTAGE

DELTA RUN

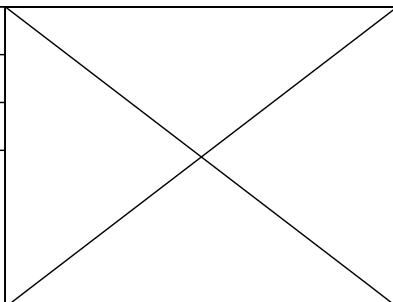


4/2 CKTY \triangle

| | | |
|-----------------------|--------------------|--------------------|
| DRAWING REVISION D | REVISION BY JWO | DATE 01-26-2016 |
| ECO ECO-0092547 | APPROVED BY TB | DATE 01-26-2016 |

ECO DESCRIPTION
ADDED IEC MARKINGS

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| | |
|--------------------|------------------------|
| DRAWN BY BLR | |
| DATE 03-09-1998 | |
| APPROVED BY GK | THIRD ANGLE PROJECTION |
| DATE 03-23-1998 | |
| REFERENCE | |

| | |
|---|---------------------------------|
| Regal Beloit America, Inc. | |
| DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN | |
| MATERIAL | PROCESS/FINISH |
| SIZE A | DRAWING NUMBER EE7358 |
| SHEET 1 OF 1 | |

CERTIFICATION DATA SHEET

Model#: 326TTFS14046 AN
CONN. DIAGRAM: A-EE7358
OUTLINE: B-SS28703-1300

WINDING#: K3264195 NONE 2
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 | 1778&1478 | 326T | TEFC | F | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|-------|---------------------|---------------------|-------------------------|------------|------|-----------|-------|-----------|
| 3 | 60/50 | 230/460#190/ 380 | 122/61&119/5 9.5 | PWS(LV ONLY) & YDRUN | CONTINUOUS | F3 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 93&92.4 | 3/4 LOAD EFF: 93 | 1/2 LOAD EFF: 91.7 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------------|------------------|--------------------|----------|-----------------|--------------|
| | | | 91.7 | SQ CAGE IND RUN | 47 / 23.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 148 LB-FT | 690 / 345 | 260 LB-FT 175 | 340 LB-FT 230 | 80 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|------------|-------------|-----------------|-----------------|----------------------|
| 72 dBA | 82 dBA | 9 LB-FT^2 | 325 LB-FT^2 | 25 SEC. | - | 725 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 | RED (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

| |
|---------------------------|
| 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 07:12:44 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



326TTFS14046

Submittal

Data @ 460 V

Motor Load Data

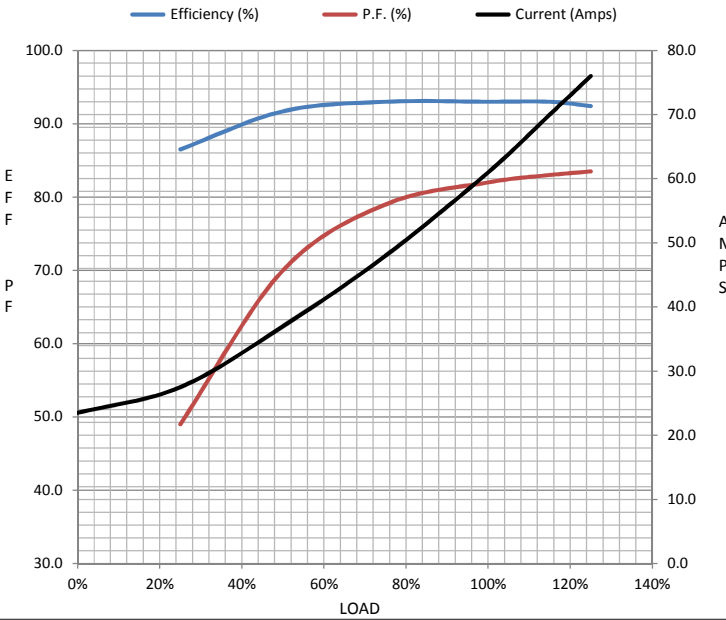
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 23.5 | 27.5 | 37.0 | 48.0 | 61.0 | 70.0 | 76.0 | 345 |
| Torque (ft-lb) | 0.00 | 36.6 | 73.5 | 111 | 148 | 170 | 185 | 260 |
| RPM | 1800 | 1795 | 1788 | 1785 | 1778 | 1,772 | 1770 | 0 |
| Efficiency (%) | | 86.5 | 91.7 | 93.0 | 93.0 | 93.0 | 92.4 | |
| P.F. (%) | 7.0 | 49.0 | 70.0 | 79.0 | 82.0 | 83.0 | 83.5 | 32.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1700 | 1778 | 1800 |
| Current (Amps) | 345 | 310 | 200 | 61.0 | 23.5 |
| Torque (ft-lb) | 260 | 225 | 340 | 148 | 0.00 |

Information Block

| | |
|-----------------------------|------------------------|
| HP | 50.0 |
| Sync. RPM | 1800 |
| Frame | 326 |
| Enclosure | TEFC |
| Construction | TFN |
| Voltage | 30/460#190/381V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | F |
| Service Factor | 1.15 |
| Temp Rise @ FL | 70 °C |
| Duty | CONT |
| Ambient | 40 °C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk ² | 9.0 Lb-Ft ² |
| Ref Wdg | K3264195 NONE |
| Sound Pressure @ 1M | 72 dBA |
| VFD Rating | NONE |
| Outline Dwg | B-SS28703-1300 |
| Conn. Diag | A-EE7358 |



Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|--------|--------|--------|--------|---------|
| 0.0770 | 0.0600 | 0.4820 | 0.6240 | 11.3120 |

Speed -Torque Curve

