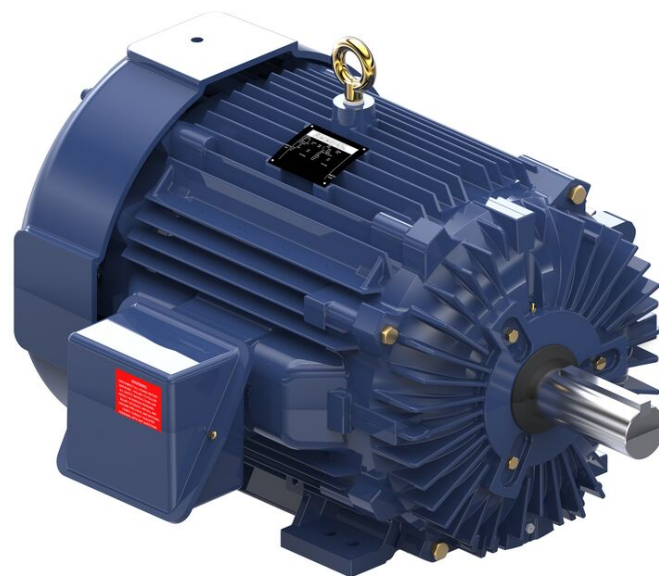


PRODUCT INFORMATION PACKET

Model No: 444TTFN16102

Catalog No: L428A

XRI® General Purpose General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,
900 & 750 RPM, 444T Frame, TEFC



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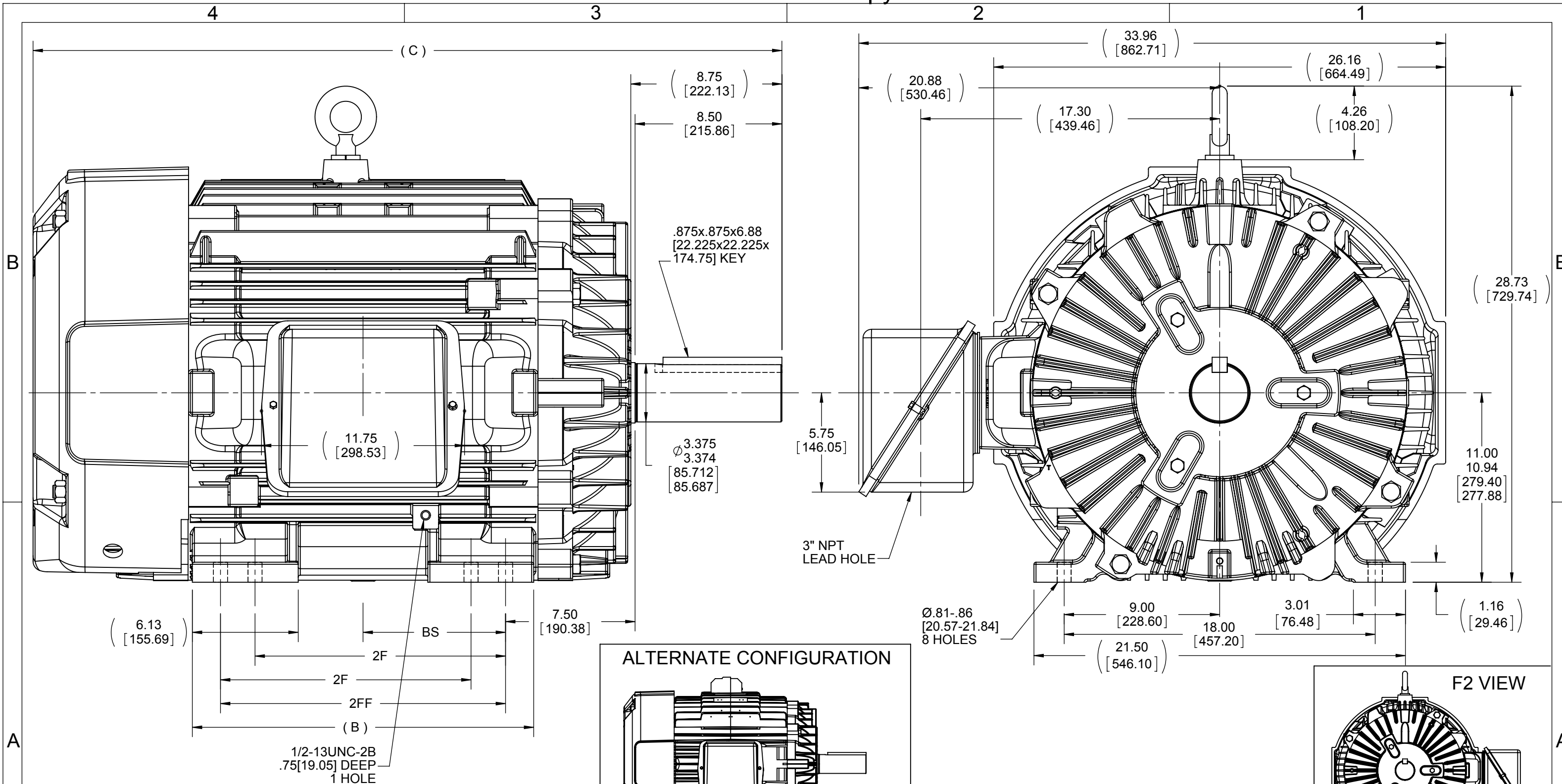
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Nameplate Specifications

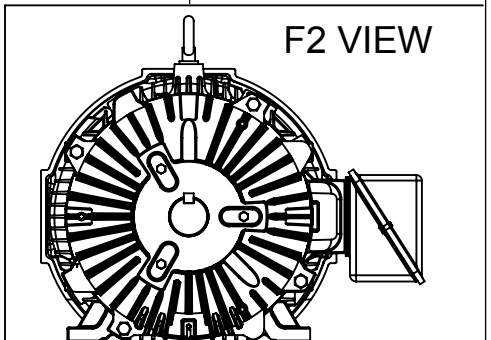
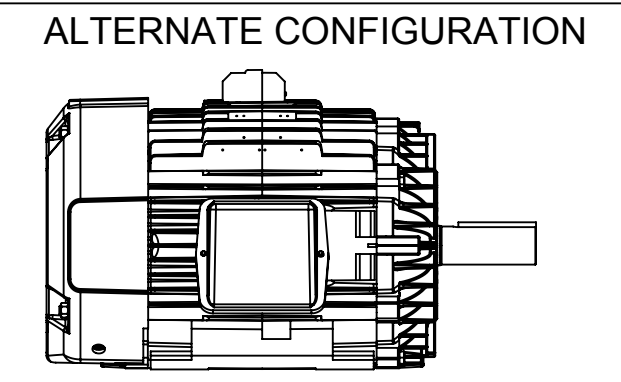
| | | | |
|------------------------|---------------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 75 & 60 Hp |
| Output KW | 56.0 & 45.0 kW | Voltage | 460 & 380 V |
| Speed | 890 & 740 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 444T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 93.6 & 93 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 102 & 98 A | Power Factor | 74 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Drive End Bearing Size | 6318 | Opp Drive End Bearing Size | 6316 |
| 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 | 8 | Rotation | Reversible |
| Resistance Main | .088 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 | 41.34 in |
| Frame Length | 18.25 in | Shaft Diameter | 3.375 in |
| Shaft Extension | 8.75 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | SS513797-2025 | Connection Drawing | A-EE7300 |



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 |
|------|----------|-------------------|--------------------|-------------------|-------------------|------------------|
| 1825 | 444T | 17.75 [450.85] | 41.34 [1050.04] | 14.50 [368.30] | --- | 7.25 [184.15] |
| 2025 | 444/445T | 19.75 [501.65] | 43.34 [1100.84] | 14.50 [368.30] | 16.50 [419.10] | 8.25 [209.55] |

| | | |
|--|--------------------|--------------------|
| DRAWING REVISION C | REVISION BY AJW | DATE 11-13-2014 |
| ECO ECO-0065299 | APPROVED BY TDB | DATE 11-13-2014 |
| ECO DESCRIPTION UPDATED TO CURRENT STANDARDS | | |
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TOLERANCES UNLESS OTHERWISE SPECIFIED:
 DEC. INCH mm ANGLE
 .X ±0.1 [±2.5] ±0.5°
 .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: 125 INCH 3.2 mm
 mm SHOWN IN [BRACKETS]

| | |
|--------------------|------------------------|
| DRAWN BY JL | DATE 06-28-1991 |
| APPROVED BY AAL | DATE 12-02-1991 |
| REFERENCE | THIRD ANGLE PROJECTION |

| | |
|--|-----------------------------------|
| REGAL ™ Regal Beloit America, Inc. | |
| DESCRIPTION OUTLINE 444/445T FR.-STD. | |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS513797 |
| SHEET 1 OF 1 | |

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION

| | |
|----|-------|
| L1 | WHITE |
| L2 | RED |
| L3 | BLACK |

A-9806 DECAL

| | | |
|---|-------------------|-------------------------------|
| DRAWING REVISION AC | REVISION BY BS | REV DATE/© DATE 26/07/2022 |
| REQUEST NUMBER CR-0010402 | APPROVED BY SN | DATE 26/07/2022 |
| REQUEST NUMBER DESCRIPTION DRAWING UPDATED | | |
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| |
|------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | | | |
|--|---------------------------------|----------------------------|-----------------|
| | | Regal Beloit America, Inc. | |
| DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR | | | |
| MATERIAL | | PROCESS/FINISH | |
| SIZE A | DRAWING NUMBER EE7300 | | SHEET 1 OF 1 |

CERTIFICATION DATA SHEET

Model#: 444TTFN16102 AA
CONN. DIAGRAM: A-EE7300
OUTLINE: B-SS513797-1825

WINDING#: T444839 NONE 2
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-------|-----------|----------|-------|-----------|----------|--------|
| 75&60 | 56&45 | 900 | 890&740 | 444T | TEFC | F | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|-------|---------|---------|-----------------|------------|------|-----------|-------|-----------|
| 3 | 60/50 | 460#380 | 102&98 | ACROSS THE LINE | CONTINUOUS | F1 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 93.6&93 | 3/4 LOAD EFF: 93.6 | 1/2 LOAD EFF: 93 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|------------------------|--------------------|-------------------|----------|-----------------|--------------|
| FULL LOAD PF: 74&74 | 3/4 LOAD PF: 68 | 1/2 LOAD PF: 56.5 | 93 | SQ CAGE IND RUN | 51 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 443 LB-FT | 500 | 660 LB-FT 149 | 920 LB-FT 208 | 75 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|--------------|-------------------|
| 68 dBA | 78 dBA | 55 LB-FT^2 | - LB-FT^2 | 20 SEC. | - | 1850 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 |
| 6318 | 6316 | | | | | | |

| 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 |
| NONE FT-LB NONE V NONE Hz |

DATE: 06/21/2017 04:30:17 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

444TFN16102

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

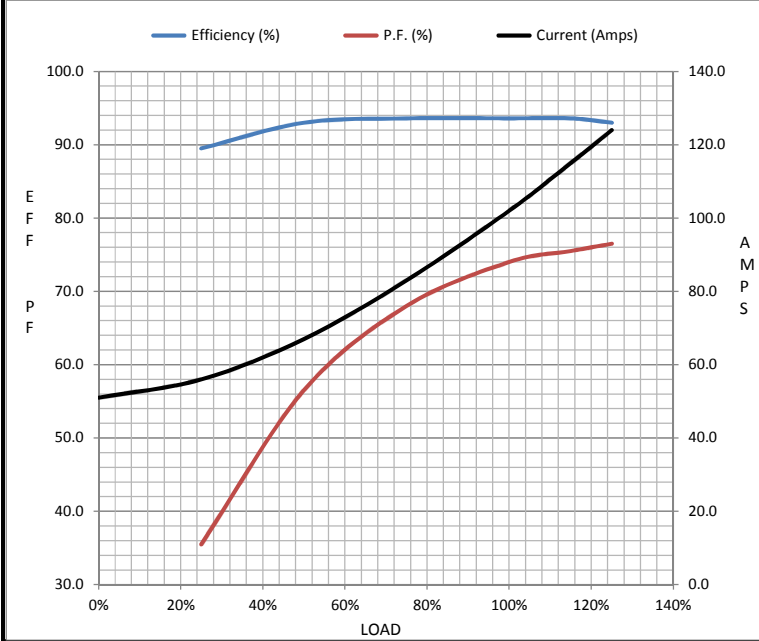
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|------|------|------|
| Current (Amps) | 51.0 | 56.0 | 67.0 | 83.0 | 102 | 115 | 124 | 500 |
| Torque (ft-lb) | 0.00 | 110 | 220 | 331 | 443 | 511 | 556 | 660 |
| RPM | 900 | 898 | 895 | 892 | 890 | 888 | 885 | 0 |
| Efficiency (%) | | 89.5 | 93.0 | 93.6 | 93.6 | 93.6 | 93.0 | |
| P.F. (%) | 3.5 | 35.5 | 56.5 | 68.0 | 74.0 | 75.5 | 76.5 | 31.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|-----|-------|------|
| Speed (RPM) | 0 | 450 | 850 | 890 | 900 |
| Current (Amps) | 500 | 450 | 270 | 102 | 51.0 |
| Torque (ft-lb) | 660 | 545 | 920 | 443 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 75.0 | | | |
| Sync. RPM | 900 | | | |
| Frame | 444 | | | |
| Enclosure | TEFC | | | |
| Construction | TFN | | | |
| Voltage | 460#380 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 | 55.0 Lb-Ft ² | | | |
| Ref Wdg | T444839 NONE | | | |
| Sound Pressure @ 1M | 68 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | B-SS513797-1825 | | | |
| Conn. Diag | A-EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0620 | 0.0350 | 0.3210 | 0.4570 | 5.0650 |



Speed -Torque Curve

