

PRODUCT INFORMATION PACKET

Model No: 444TTFN16574

Catalog No: E629-P

XRI®-SD Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 444T Frame, TEFC



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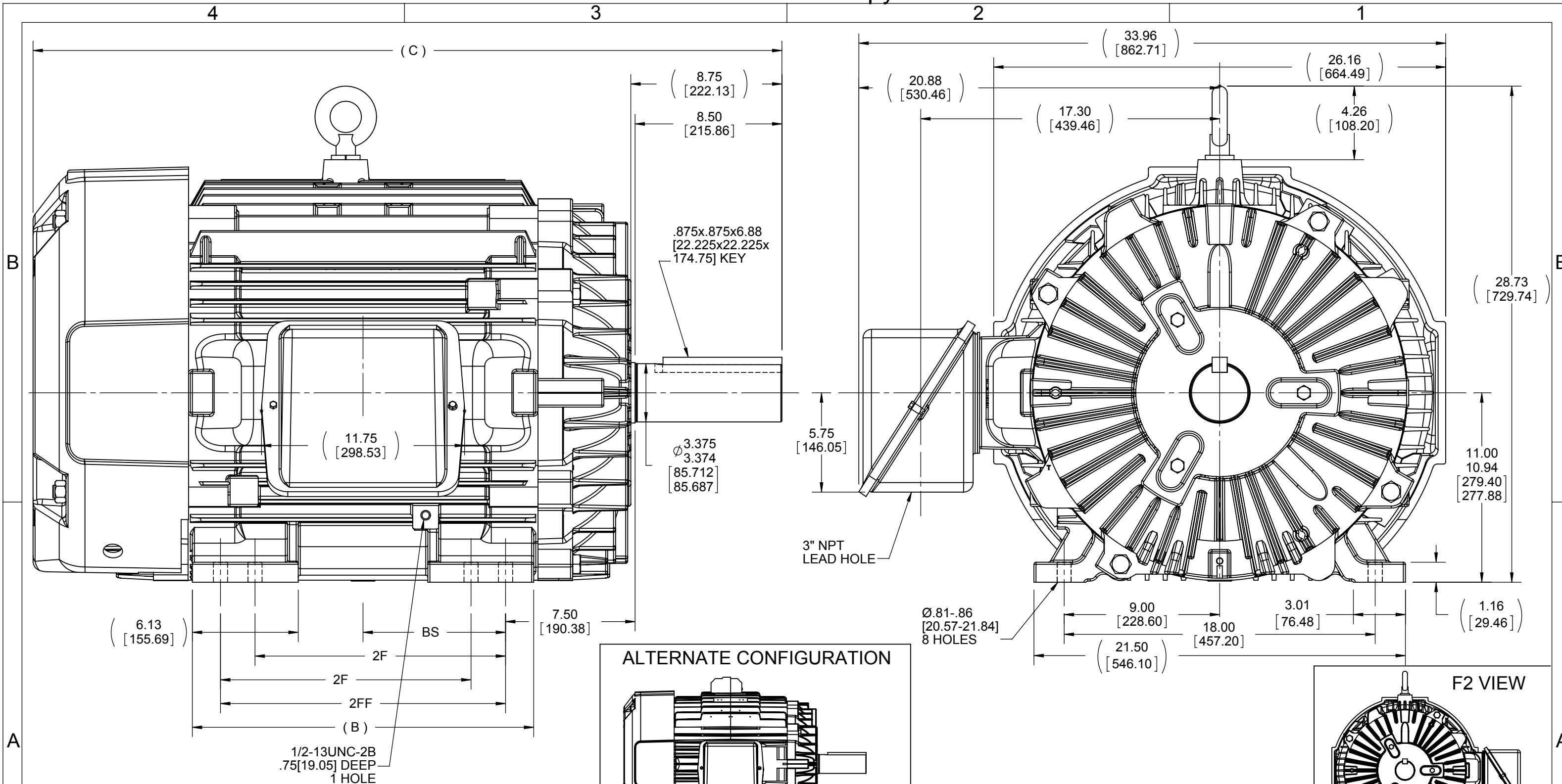


Nameplate Specifications

| | | | |
|------------------------|----------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 125 Hp |
| Output KW | 93.0 kW | Voltage | 460 V |
| Speed | 1785 rpm | Service Factor | 1.15 |
| Frame | 444T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 95.4 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 146.0 A | Power Factor | 84 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6318 | Opp Drive End Bearing Size | 6316 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 54 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .04 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 | 43.34 in |
| Frame Length | 20.25 in | Shaft Diameter | 3.375 in |
| Shaft Extension | 8.50 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Inverter Load | CONSTANT 2:1 | | |
| Connection Drawing | A-EE7300U | Outline Drawing | B-SS513797-2025 |



- 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] |

ALTERNATE CONFIGURATION

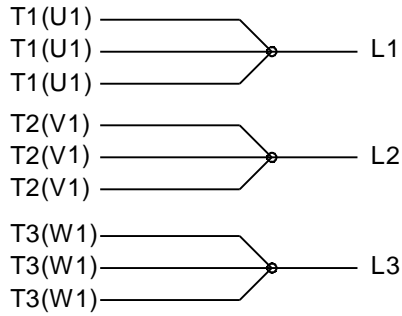
DRAWING REVISION C
 REVISION BY AJW
 DATE 11-13-2014
 ECO ECO-0065299
 APPROVED BY TDB
 DATE 11-13-2014
 ECO DESCRIPTION
 UPDATED TO CURRENT STANDARDS
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TOLERANCES UNLESS OTHERWISE SPECIFIED:
 DEC. .X ±0.1 [±2.5]
 .XX ±0.03 [±0.76]
 .XXX ±0.005 [±0.127]
 .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 SHOWN IN [BRACKETS]

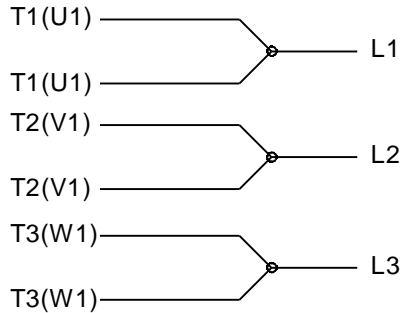
DRAWN BY JL
 DATE 06-28-1991
 APPROVED BY AAL
 DATE 12-02-1991
 REFERENCE
 THIRD ANGLE PROJECTION

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

IF MOTOR HAS 9 LEADS

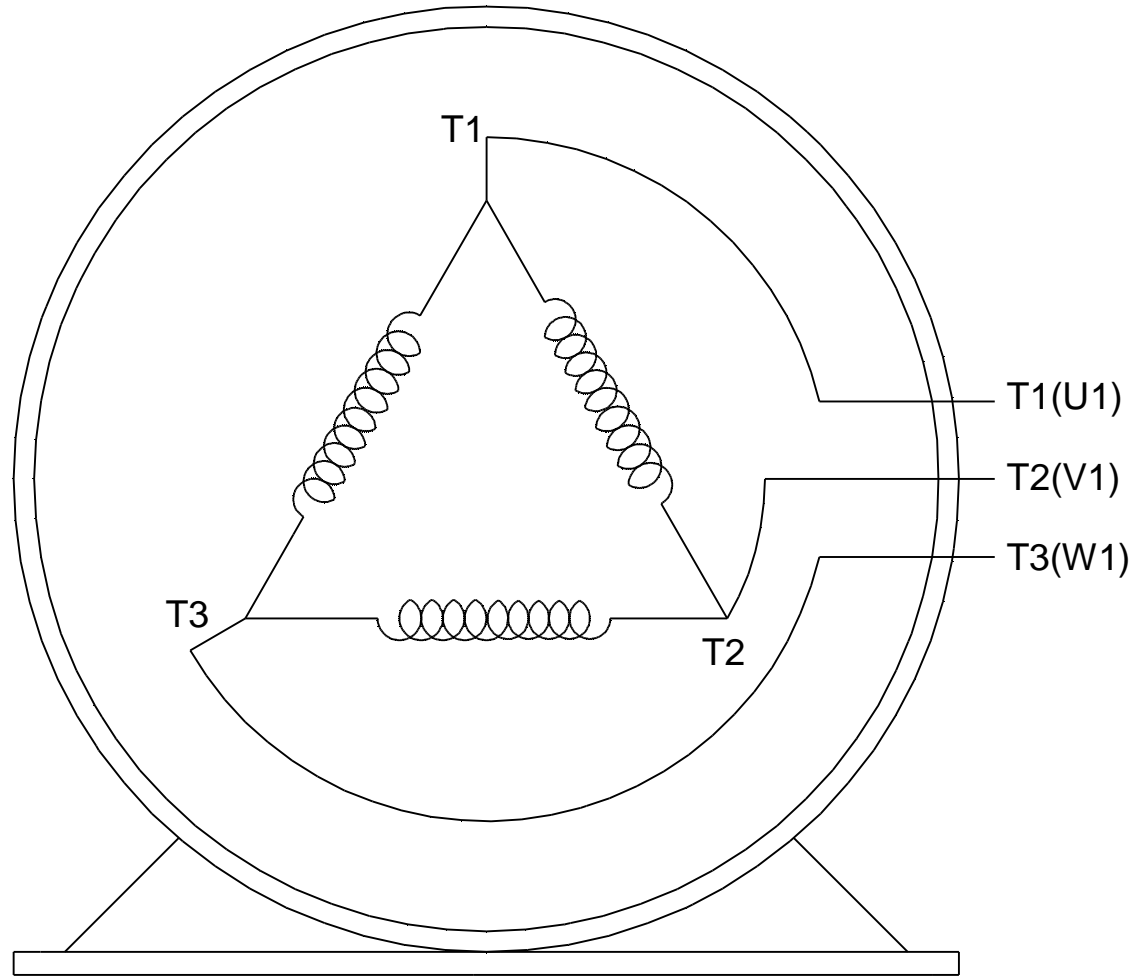
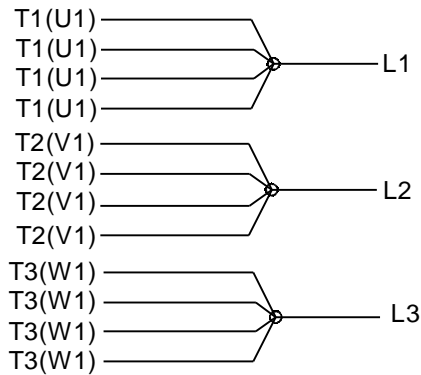


IF MOTOR HAS 6 LEADS



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] | | DATE 09-27-1996 |
| <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 | | | APPROVED BY GK | DATE 09-30-1996 | MATERIAL | PROCESS/FINISH | | | | | | | | | | | | | | | | | | | | |
| 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 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS] | REFERENCE | SIZE A | DRAWING NUMBER EE7300U | SHEET 1 OF 1 | | | | | | | | | | | | | | | | | | | |
| | | | | THIRD ANGLE PROJECTION | | | | | | | | | | | | | | | | | | | | | | |



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 #: 444TTFN16574
 CONN. DIAGRAM: A-EE7300U CAT #: E629-P
 OUTLINE: B-SS513797-2025 CUSTOMER PART #: _____
 WINDING: T4444143 NONE 1 MOUNTING: F1/F2 CAPABLE
 SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|----|----------|--------|-------|-----------|------|----------|--------|
| 125 | 93 | 1800 | 1785 | 444T | TEFC | TFN | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|----|-------|------|------------------|------|------|------|-----|-------|
| 3 | 60 | 460 | 146 | LINE OR INVERTER | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 95.4 | 3/4 LD EFF | 95.4 | 1/2 LD EFF | 95.0 | GTD EFF | 95.0 | ELECT. TYPE | SQ CAGE INV RATED |
|----------|------|------------|------|------------|------|---------|------|-------------|-------------------|
| F.L. PF | 84.0 | 3/4 LD PF | 80.5 | 1/2 LD PF | 71.5 | | | | |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|-------------|-----------------|----------------|----------------|----------------|
| 368 LB-FT | 907 | 500 LB-FT 136% | 950 LB-FT 258% | 80 |

| @ 3 FT. | POWER | ROTOR WK ² | MAX. LOAD WK ² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---------|--------|-------------------------|---------------------------|-----------------|-------------|-----------|
| 75 dBA | 84 dBA | 40.0 LB-FT ² | 0 LB-FT ² | 25 SEC. | 0 | 1775 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 | UM SEVERE | NONE | NO | NONE | BLUE (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | ODE | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| BALL | BALL | | | | | | |
| 6318 | 6316 | | | | | | |

| 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 |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.03 | 0.015 | 0.217 | 0.185 | 5.044 | 0.080 | ODE |

| | | | | | | |
|---------------------------------|--|--|--|--|--|--|
| * N O T E S * | INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE | | | | | |
| | ENCODER: NONE NONE NONE | | | | | |
| | NONE PPR | | | | | |
| | BRAKE: NONE NONE NONE | | | | | |
| | FT-LB: NA VOLTAGE: NONE HZ: | | | | | |

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/12/2018
 FORM: 3531 REV_4 2/27/06
 UL: V-INS, CONST UL REC

Data Sheet

Date: 12/3/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



444TTFN16574

Submittal

Data @ 460 V

Motor Load Data

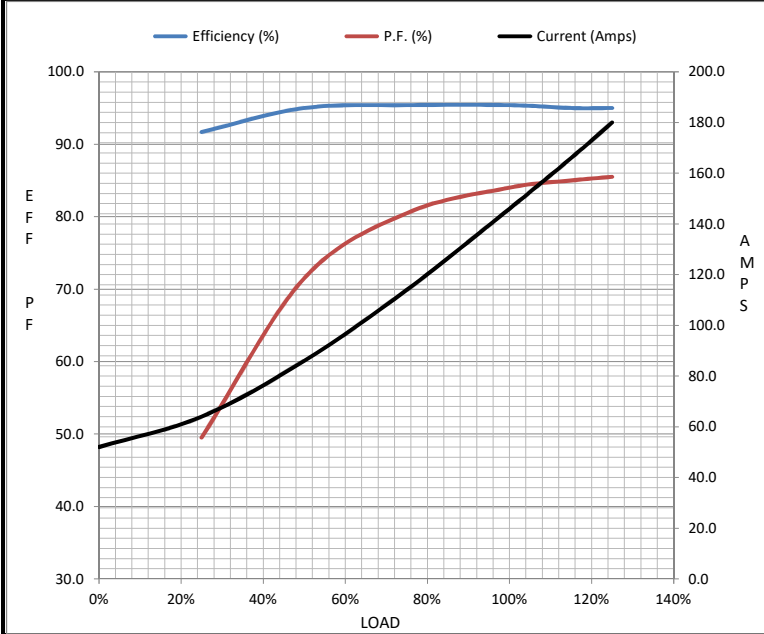
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 52.0 | 64.0 | 86.0 | 114 | 146 | 166 | 180 | 907 |
| Torque (ft-lb) | 0.00 | 91.5 | 183 | 275 | 368 | 423 | 461 | 500 |
| RPM | 1800 | 1797 | 1793 | 1790 | 1785 | 1,783 | 1780 | 0 |
| Efficiency (%) | | 91.7 | 95.0 | 95.4 | 95.4 | 95.0 | 95.0 | |
| P.F. (%) | 4.5 | 49.5 | 71.5 | 80.5 | 84.0 | 85.0 | 85.5 | 26.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1725 | 1785 | 1800 |
| Current (Amps) | 907 | 800 | 600 | 146 | 52.0 |
| Torque (ft-lb) | 500 | 425 | 950 | 368 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 125.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 444 | | | |
| Enclosure | TEFC | | | |
| Construction | TFN | | | |
| Voltage | 460 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| 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 ² | 40.0 Lb-Ft ² | | | |
| Ref Wdg | T4444143 NONE | | | |
| Sound Pressure @ 1M | 75 dBA | | | |
| VFD Rating | CONSTANT 2:1 | | | |
| Outline Dwg | B-SS513797-2025 | | | |
| Conn. Diag | A-EE7300U | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0300 | 0.0150 | 0.2170 | 0.1850 | 5.0440 |



Speed - Torque Curve

