

PRODUCT INFORMATION PACKET

Model No: 449TSTFS6501
Catalog No: E769
350 HP, Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 449TS Frame, TEFC
Severe Duty Motors



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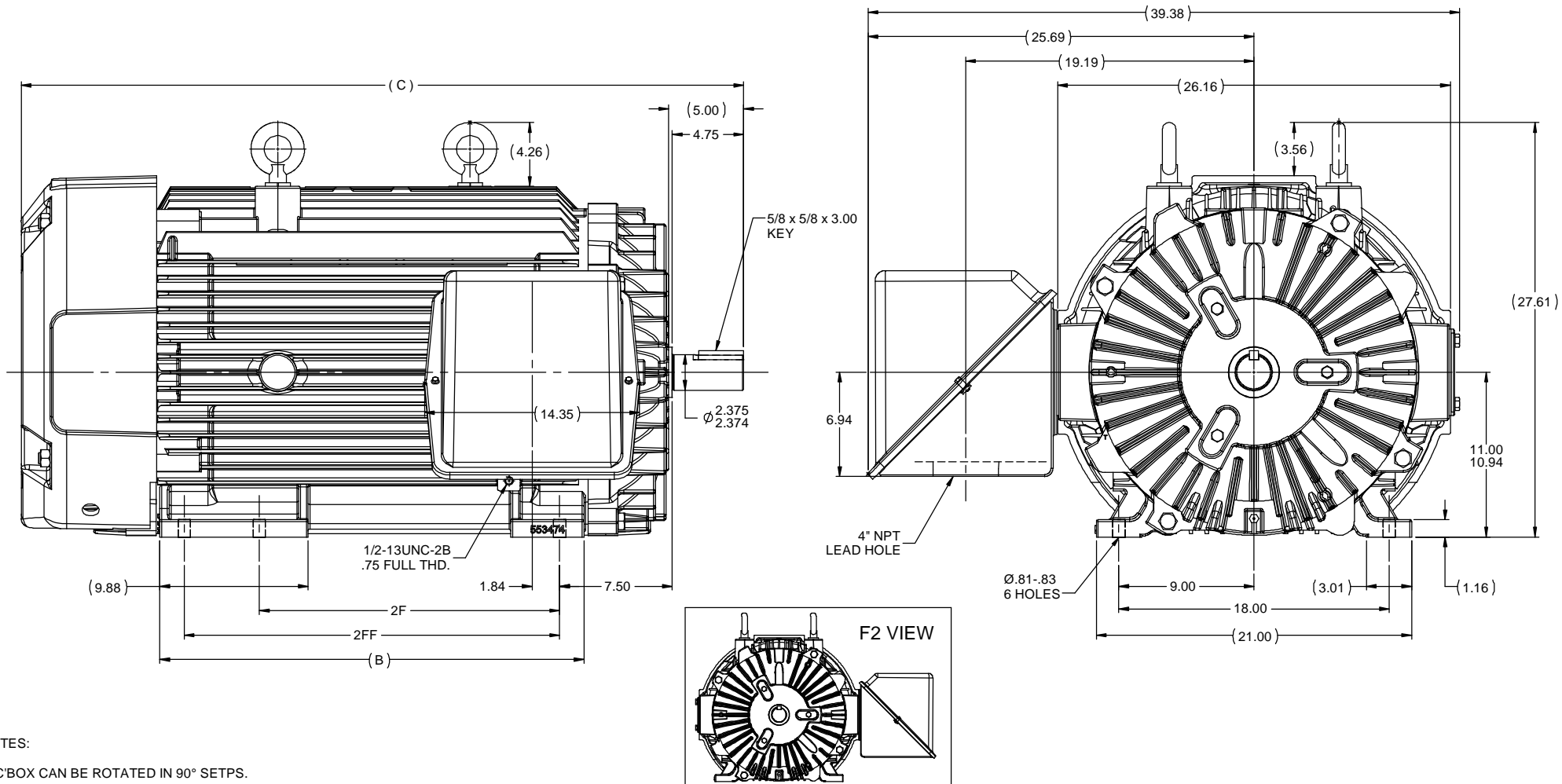
Nameplate Specifications

| | | | |
|------------------------|-----------------------|----------------------------|------------------------------------|
| Output HP | 350 Hp | Output KW | 260.0 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 380.0 A | Speed | 3572 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 95.8 % | Power Factor | 89 |
| Duty | Continuous | Insulation Class | H |
| Design Code | B | KVA Code | G |
| Frame | 449TS | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6313 | Opp Drive End Bearing Size | 6313 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 54 |
| Hazardous Location | DIVISION 2 T2B | Number of Speeds | 1 |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .0072 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 | 48.09 in |
| Frame Length | 28.75 in | Shaft Diameter | 2.375 in |
| Shaft Extension | 5 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | A-EE7300U | Outline Drawing | B-SS515689-2875 |

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NOTES:

- C'BOX CAN BE ROTATED IN 90° SETPS.
- NAMEPLATES TO BE READ FROM C'BOX SIDE OF MOTOR.

| REVISION | | BY & DATE | CHK | LANG | TOLERANCES UNLESS SPECIFIED | marathon electric | | DRAWN | BLR 06-14-1996 |
|----------|---------------------------------------------|---------------|-----|------|-----------------------------|-------------------|--------|-------------------|----------------|
| NO | DESCRIPTION | | | | SSW | DEC | INCHES | CHK | MRB 06-16-1996 |
| 6 | UPDATED FRAME TO CURRENT STD'S. MU108818 | JJB 7/16/2012 | MH | | | | | APPR | JL 06-16-1996 |
| 5 | UPDATED TO SOLIDWORKS, AND UPDATED FRAME | CJR 2/15/2012 | SSW | | | | | SCALE | 1:6.5 |
| 4 | REVISED FAN GAURD MU76102 | RJW 11-6-6 | ML | X | | | | REF | |
| 3 | UPDATED C'BOX GEMETRY CN28404 | DRS 11-4-02 | | XX | | | | FMF | |
| 2 | ADD GRD PADS&HOLES TO FRAME PER CN21725-983 | KL 4-6-97 | | XXX | | | | PAGE | OF |
| 1 | NEW DRAWING CN22247 | BLR 6-19-96 | | XXXX | | | | FINISH | |
| | | | | | | | | PREV | |
| | | | | | | | | NETWORK FILE NAME | SS515689 |
| | | | | | | | | SIZE | B |
| | | | | | | | | DRAWING NO | SS515689 |
| | | | | | | | | REV | 6 |

| DASH | FRAME | C | B | 2F | 2XF |
|------|-------|-------|-------|-------|-------|
| 2875 | 447TS | 48.09 | 28.25 | 20.00 | - - - |
| 2875 | 449TS | 48.09 | 28.25 | - - - | 25.00 |



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 | | | | | | | | | | | | | | | | | | | |
| 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. | | | | DATE 09-30-1996 | | MATERIAL | PROCESS/FINISH | | | | | | | | | | | | | | | | | |
| | | | | REFERENCE | SIZE A | DRAWING NUMBER EE7300U | SHEET 1 OF 1 | | | | | | | | | | | | | | | | | |

CERTIFICATION DATA SHEET

Model#: 449TSTFS6501 EV **WINDING#:** T449262 NONE 1
CONN. DIAGRAM: A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS515689-2875

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-----|-----|-----------|----------|-----------|-----------|----------|--------|
| 350 | 260 | 3600 | 3572 | 447/449TS | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------|---------|---------------------|----------------|------|------|-------|-----------|
| 3 | 60 | 460 | 380 | LINE OR INVERTER | CONTINUOU S | H1 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 95.8 | 3/4 LOAD EFF: 95.8 | 1/2 LOAD EFF: 95.4 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 89 | 3/4 LOAD PF: 87.5 | 1/2 LOAD PF: 82 | 95.4 | SQ CAGE INV RATED | 98 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|----------------|-------------|
| 515 LB-FT | 2550 | 775 LB-FT 150 | 1375 LB-FT 265 | 80 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-------------|-----------------|--------------|-------------------|
| 82 dBA | 92 dBA | 51 LB-FT^2 | 200 LB-FT^2 | 15 SEC. | 1 | 2800 LBS. |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|------------------------|--------------------|------------|---------|--------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | DIVISION 2 T2B | FALSE | NONE | BLUE (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|----------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6313 | 6313 | | | | | | |

| 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: CONSTANT 2:1 |
| INV. HP SPEED RANGE: 1.5 X BASE SPEED |
| ENCODER: NONE |
| NONE NONE |
| NONE NONE PPR |
| BRAKE: NONE NONE |
| NONE P/N NONE |
| NONE NONE |
| - FT-LB NONE V NONE Hz |

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DATE: 06/21/2017 06:54:47 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



449TSTFS6501

Submittal

Data @ 460 V

Motor Load Data

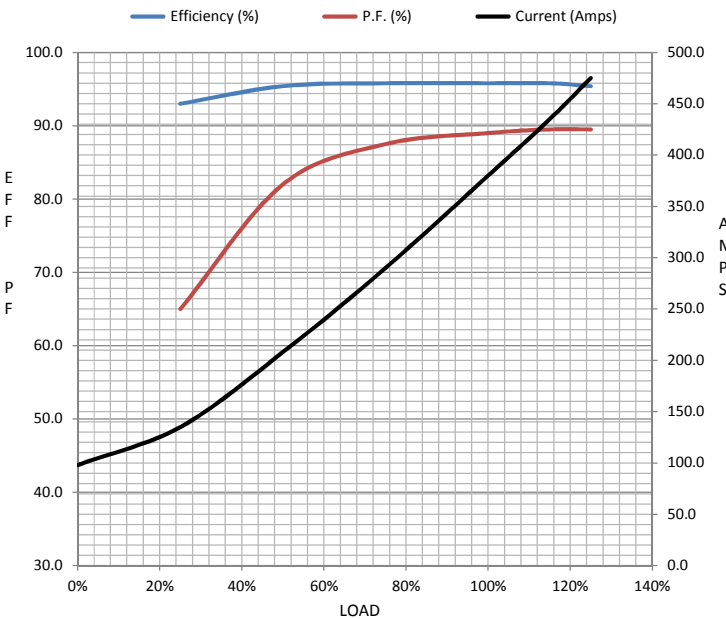
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|-------|
| Current (Amps) | 98.0 | 135 | 208 | 290 | 380 | 435 | 475 | 2,550 |
| Torque (ft-lb) | 0.00 | 128 | 256 | 385 | 515 | 593 | 645 | 775 |
| RPM | 3600 | 3592 | 3585 | 3580 | 3572 | 3,568 | 3565 | 0 |
| Efficiency (%) | | 93.0 | 95.4 | 95.8 | 95.8 | 95.8 | 95.4 | |
| P.F. (%) | 5.5 | 65.0 | 82.0 | 87.5 | 89.0 | 89.5 | 89.5 | 25.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM) | 0 | 1800 | 3425 | 3572 | 3600 |
| Current (Amps) | 2,550 | 2,295 | 1,700 | 380 | 98.0 |
| Torque (ft-lb) | 775 | 575 | 1,375 | 515 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 350.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 449 | | | |
| 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 | 51.0 Lb-Ft ² | | | |
| Ref Wdg | T449262 NONE | | | |
| Sound Pressure @ 1M | 82 dBA | | | |
| VFD Rating | CONSTANT 2:1 | | | |
| Outline Dwg | B-SS515689-2875 | | | |
| Conn. Diag | A-EE7300U | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0060 | 0.0060 | 0.0690 | 0.0740 | 2.7090 |



Speed -Torque Curve

