

PRODUCT INFORMATION PACKET

Model No: 447TTDN16083

Catalog No: E796A

General Purpose Motors, Drip Proof, 150 HP, 3 Ph, 60 Hz, 460 V, 1190 RPM, 447T

General Purpose Motors



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Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|-------------------|
| Output HP | 150 Hp | Output KW | 112.0 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 185.0 A | Speed | 1190 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 95.4 % | Power Factor | 80 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 447T | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | NU318 | Opp Drive End Bearing Size | 6314 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | .029 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Roller |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Overall Length | 43.25 in |
| Frame Length | 24.38 in | Shaft Diameter | 3.375 in |
| Shaft Extension | 8.75 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7300U | Outline Drawing | B-SS514252-2438 |

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 | | | | | | | | | | | | | | | | | | | | | | |

Data Sheet

Date: 1/28/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



447TTDN16083

Submittal

Data @ 460 V

Motor Load Data

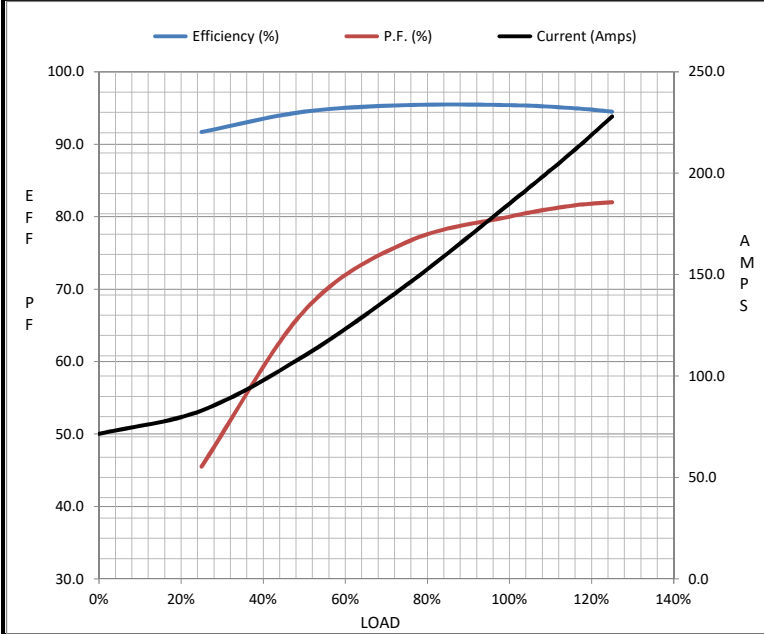
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|-------|
| Current (Amps) | 71.5 | 83.0 | 110 | 145 | 185 | 210 | 228 | 1,050 |
| Torque (ft-lb) | 0.00 | 165 | 330 | 496 | 663 | 763 | 831 | 1,100 |
| RPM | 1200 | 1196 | 1194 | 1192 | 1190 | 1,188 | 1186 | 0 |
| Efficiency (%) | | 91.7 | 94.5 | 95.4 | 95.4 | 95.0 | 94.5 | |
| P.F. (%) | 3.5 | 45.5 | 67.0 | 76.5 | 80.0 | 81.5 | 82.0 | 28.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM) | 0 | 600 | 1150 | 1190 | 1200 |
| Current (Amps) | 1,050 | 900 | 600 | 185 | 71.5 |
| Torque (ft-lb) | 1,100 | 950 | 1,500 | 663 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 150.0 | | | |
| Sync. RPM | 1200 | | | |
| Frame | 447 | | | |
| Enclosure | DP | | | |
| Construction | TDN | | | |
| Voltage | 460 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 40 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 3,300 feet | | | |
| Rotor/Shaft wk ² | 80.0 Lb-Ft ² | | | |
| Ref Wdg | T447620 NONE | | | |
| Sound Pressure @ 1M | 76 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | B-SS514252-2438 | | | |
| Conn. Diag | A-EE7300U | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0210 | 0.0140 | 0.1540 | 0.2420 | 3.6190 |



Speed - Torque Curve

