

# PRODUCT INFORMATION PACKET

Model No: 445TSTFN6502

Catalog No: E495

Severe Duty Motors, TEFC, 150 HP, 3 Ph, 60 Hz, 575 V, 3575 RPM, 445TS Frame



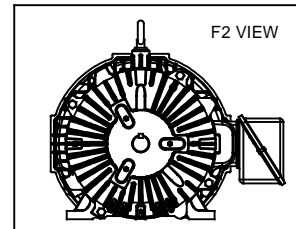
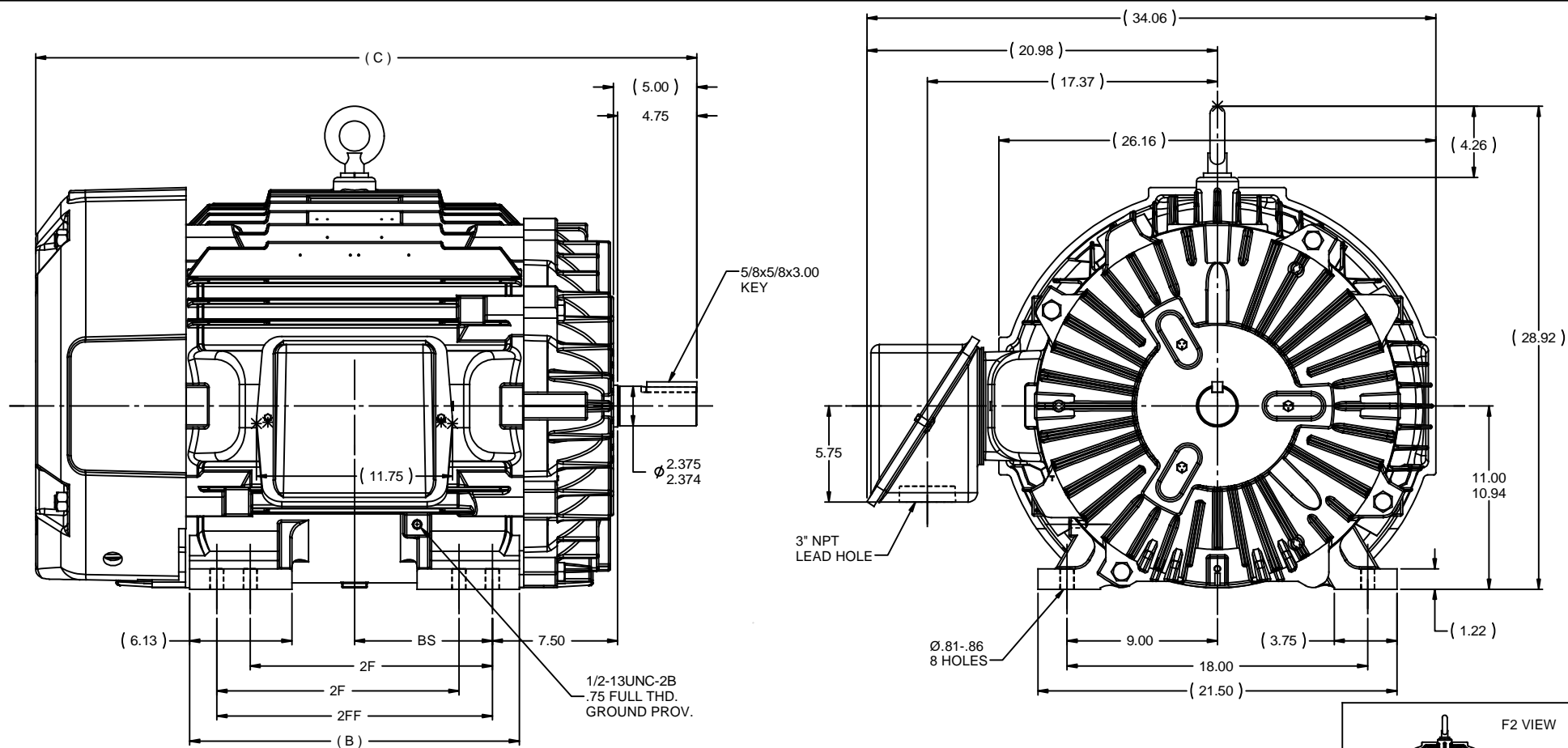
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### Nameplate Specifications

Output HP	<b>150 Hp</b>	Output KW	<b>112.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>134.0 A</b>	Speed	<b>3575 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>95.8 %</b>	Power Factor	<b>88</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>445TS</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6313</b>	Opp Drive End Bearing Size	<b>6313</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.018 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>TS</b>	Overall Length	<b>39.62 in</b>
Frame Length	<b>20.25 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>B-SS514022-2025</b>	Connection Drawing	<b>A-EE7300U</b>



- 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.

NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV	SIZE	DRAWING NO	REV
10	UPDATED WITH NEW FRAME PER ISAAC 09-5049	JJB 6/29/2010								
9	REV. FAN GUARD & C-DIM. PER CN39335	RWR 6/29/2010		DEC	INCHES					
8	REDRAWN IN AUTOCAD	TAT 06/29/2004	ML	x	±.1					
7	REVISED 'C' DIM. CN 26153	KL 01/22/1999	XX	XX	±.03	TITLE	OUTLINE			SCALE 1:6
6	RE-ISSUE 'C' DIM. WAS 37.44 & 39.44	BLR 06/10/1997	XXX	XXX	±.005		444/445TS FR. - TEFC - TFN			REF
5	UPDATED TO SHOW NEW FRAME AND LIFT LUGS CN21946	PGK 01/22/1997	XXX	XX	±.0005	MATL				FMF MU96082
										PAGE OF

DASH	FRAME	B	C	2F	2FF	BS
2025	444/445TS	19.75	39.62	14.50	16.50	8.25

THIRD ANGLE PROJECTION

NETWORK FILE NAME SS514022

SIZE B DRAWING NO SS514022 REV 10

**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 <b>L</b>	REVISION BY <b>AJW</b>	DATE <b>05-04-2015</b>	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY <b>DRS</b>	<b>Regal Beloit America, Inc.</b>																					
ECO <b>ECO-0077067</b>	APPROVED BY <b>EWH</b>	DATE <b>05-05-2015</b>	<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 <b>09-27-1996</b>
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ECO DESCRIPTION <b>UPDATED TO SOLIDWORKS</b> <small>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.</small>			APPROVED BY <b>GK</b>	MATERIAL	PROCESS/FINISH																					
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH 5.1/mm mm SHOWN IN [BRACKETS]			DATE <b>09-30-1996</b>	<b>EE7300U</b>																			
REFERENCE	THIRD ANGLE PROJECTION	SIZE <b>A</b>				DRAWING NUMBER			SHEET <b>1 OF 1</b>																	



Data Sheet

Date: 6/19/2017

445TSTFN6502

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

**Submittal**

Submitted by: FAREEDA DUDEKULA

Data @ 575 V

Motor Load Data

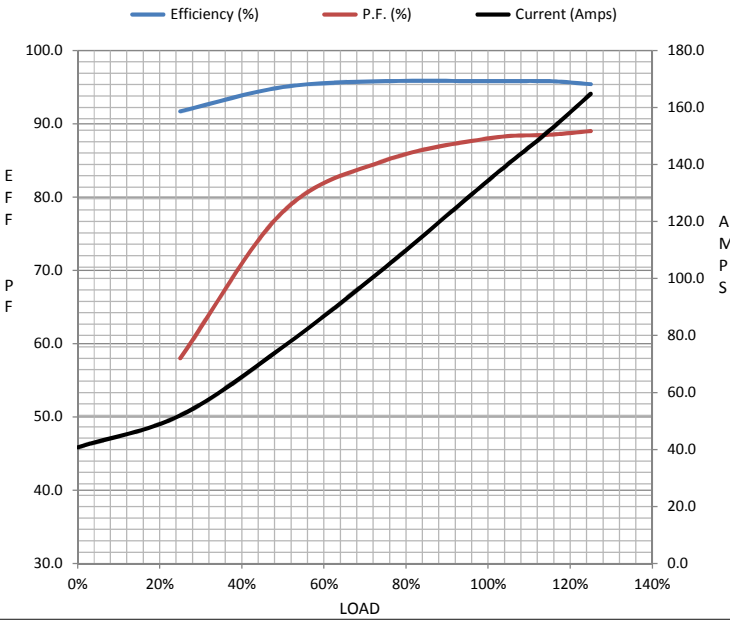
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	40.8	52.0	76.0	104	134	152	165	868	
Torque (ft-lb)	0.00	55.0	110	165	221	254	276	275	
RPM	3600	3595	3588	3582	3575	3,570	3568	0	
Efficiency (%)		91.7	95.0	95.8	95.8	95.8	95.4		
P.F. (%)	5.0	58.0	78.0	85.0	88.0	88.5	89.0	21.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3300	3575	3600
Current (Amps)	868	782	560	134	40.8
Torque (ft-lb)	275	248	640	221	0.00

Information Block

HP	150.0
Sync. RPM	3600
Frame	445
Enclosure	TEFC
Construction	TFN
Voltage	575 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	65 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk <sup>2</sup>	31.0 Lb-Ft <sup>2</sup>
Ref Wdg	T445276 NONE
Sound Pressure @ 1M	78 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	B-SS514022-2025
Conn. Diag	A-EE7300U



Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0220	0.0200	0.2600	0.2190	8.0620

Speed -Torque Curve

