

PRODUCT INFORMATION PACKET

Model No: 445UTFN4036

Catalog No: P493

Automotive Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 445U Frame, TEFC



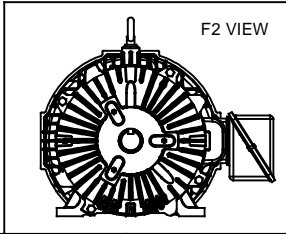
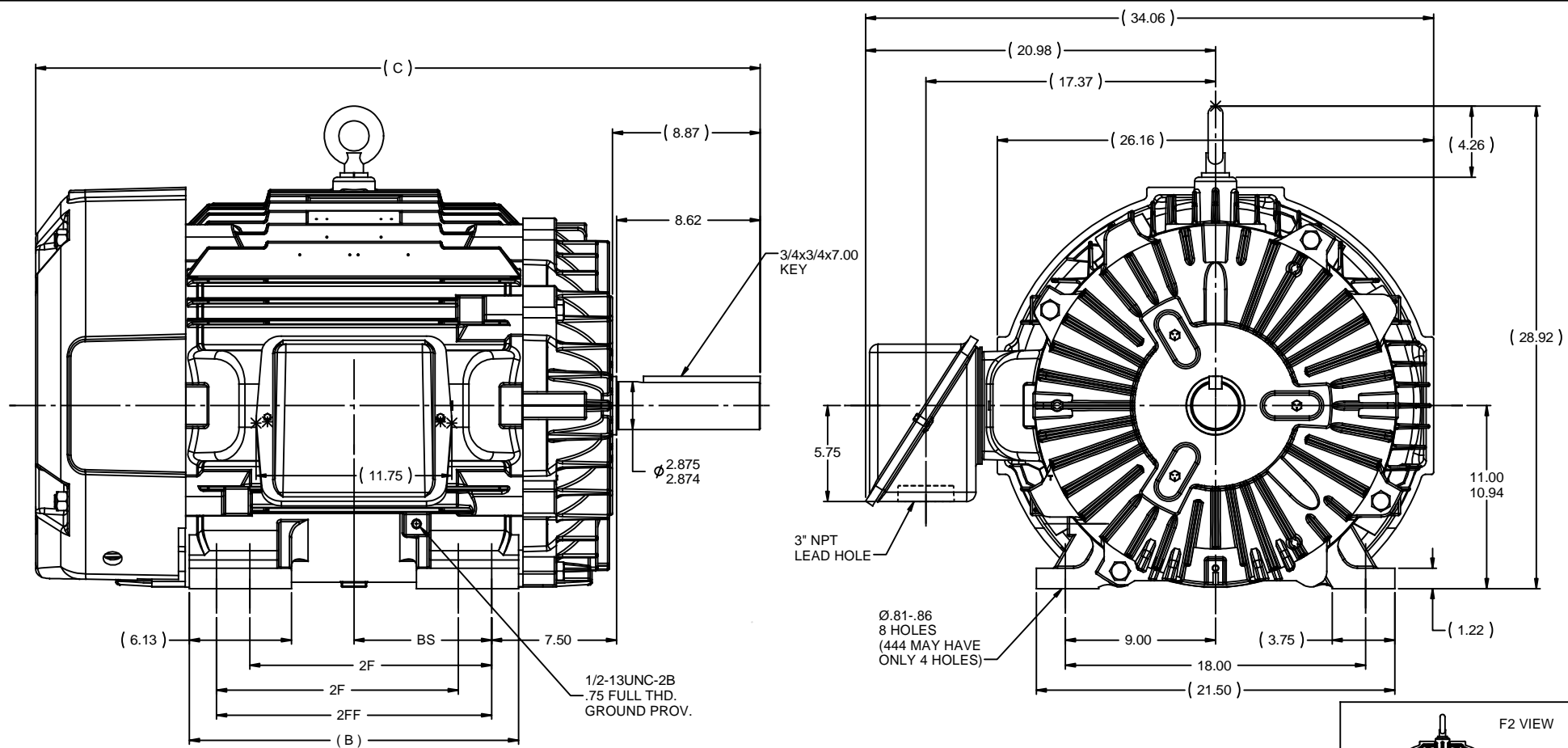
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Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	460 V
Current	113.0 A	Speed	1785 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445U	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	No	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	4	Rotation	Reversible
Resistance Main	.042 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	U	Overall Length	43.47 in
Frame Length	20.25 in	Shaft Diameter	2.875 in
Shaft Extension	8.87 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS517165-2025	Connection Drawing	A-EE7300U



- 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	444U	17.75	41.47	14.50	---	7.25
2025	444/445U	19.75	43.47	14.50	16.50	8.25

NO	REVISION	BY & DATE	CHK	ANG	FINISH	SIZE	DRAWING NO	REV
5	UPDATED TO NEW FRAME MU 96632	HLB 07-29-2010	MH	DEC	INCHES	B	SS517165	5
4	UPDATED DRAWING	RJW 04-18-2007	ML	X	±.1			
3	CHG. TO SHORT FAN GUARD DESIGN PER CN 39335	RWR 02-27-2007	ML	XX	±.03			
2	REDRAWN IN AUTOCAD	TAT 05-19-2008	ML	XXX	±.005			
1	NEW DRAWING MU 25372	KL 05-26-1999	XXX	XXX	±.0005			

TOLERANCES UNLESS SPECIFIED	TITLE	SCALE
±.1	OUTLINE	1:6
±.03	444/445U FR. - TAPPED LEAD HOLE	
±.005		
±.0005		

THIRD ANGLE PROJECTION	NETWORK FILE NAME	SIZE	DRAWING NO	REV
	SS517165	B	SS517165	5

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
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.XXXX	±0.0005	[±0.0127]																								
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK	DATE 09-30-1996	MATERIAL	PROCESS/FINISH																				
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				THIRD ANGLE PROJECTION																						

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



445UTFN4036

Submittal

Data @ 460 V

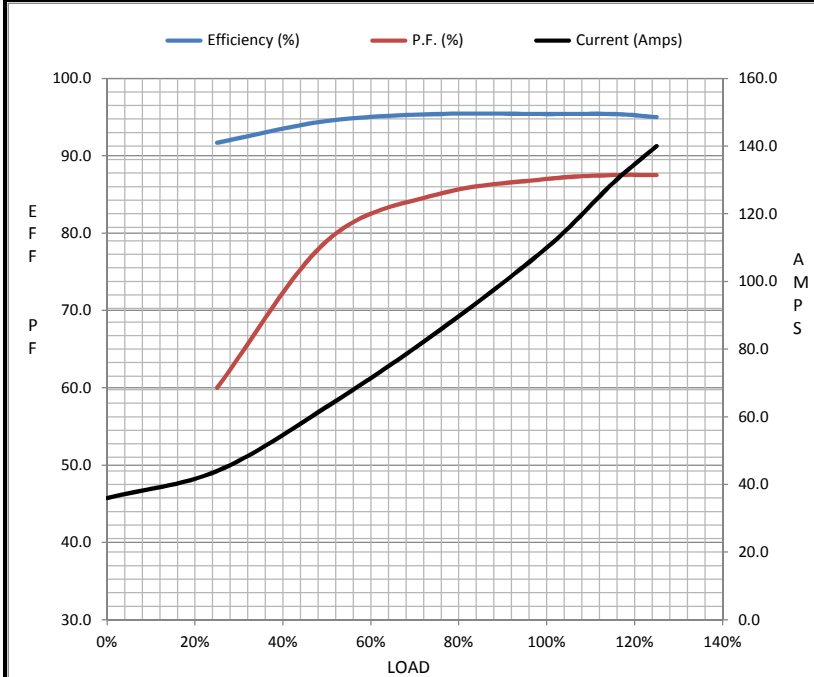
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	36.0	44.0	63.0	85.0	110	129	140	725
Torque (ft-lb)	0.00	73.0	146	220	294	339	368	425
RPM	1800	1796	1792	1790	1785	1,782	1780	0
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0	
P.F. (%)	5.5	60.0	79.0	85.0	87.0	87.5	87.5	25.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	725	650	430	110	36.0
Torque (ft-lb)	425	400	725	294	0.00

Information Block				
HP	100.0			
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	48 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	45.0 Lb-Ft ²			
Ref Wdg	T4454161 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS517165-2025			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0270	0.0190	0.2690	0.2660	8.0740



Speed - Torque Curve

