

PRODUCT INFORMATION PACKET

Model No: 445THFN9086
Catalog No: W608
125 HP Severe Duty Motor, 3 phase, 1200 RPM, 460 V, 445T Frame, TEFC
Severe Duty Motors



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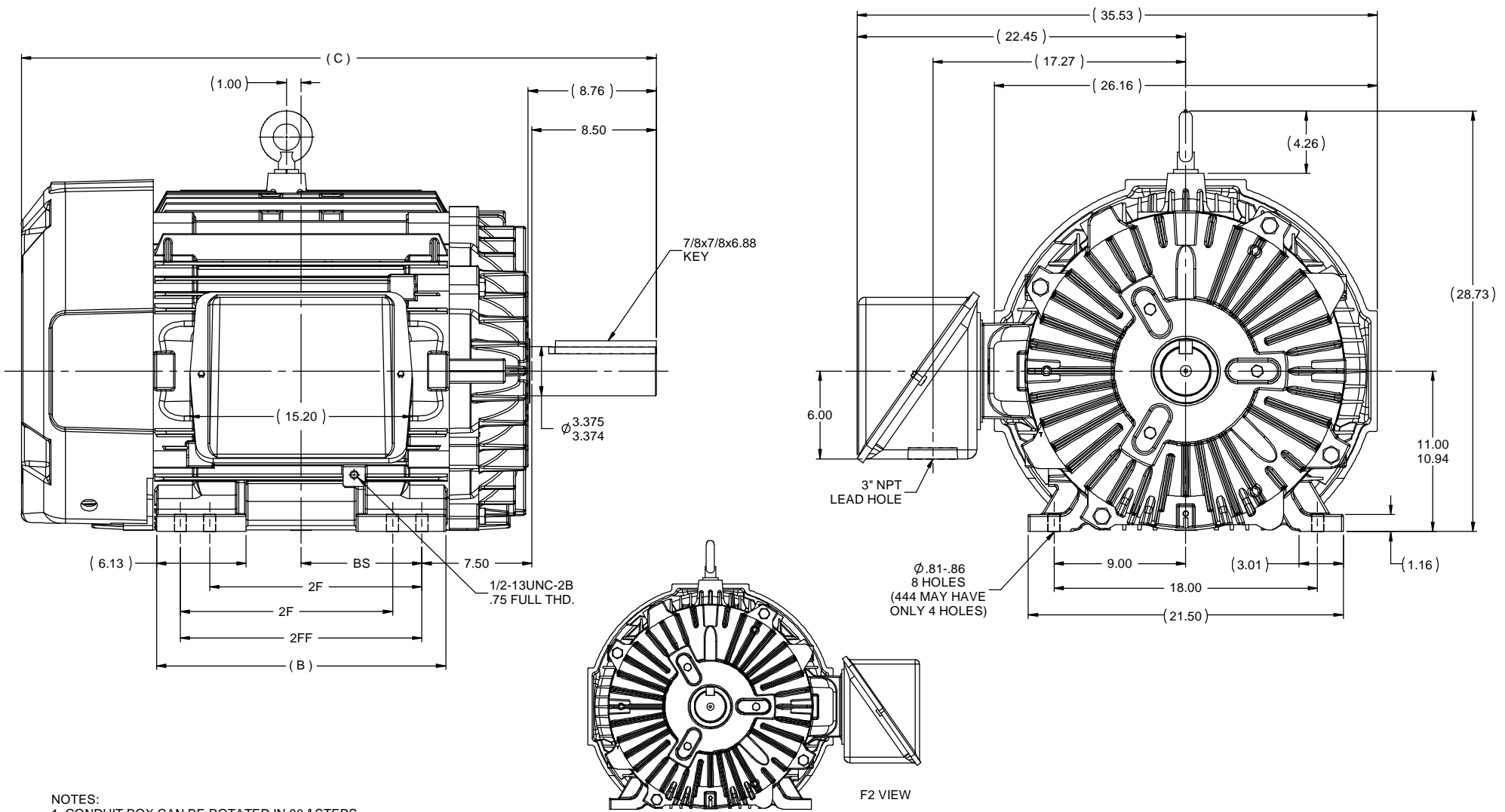
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	155.0 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	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	T	Overall Length	43.35 in
Frame Length	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.76 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS517026-2025	Connection Drawing	A-EE7300

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NOTES:

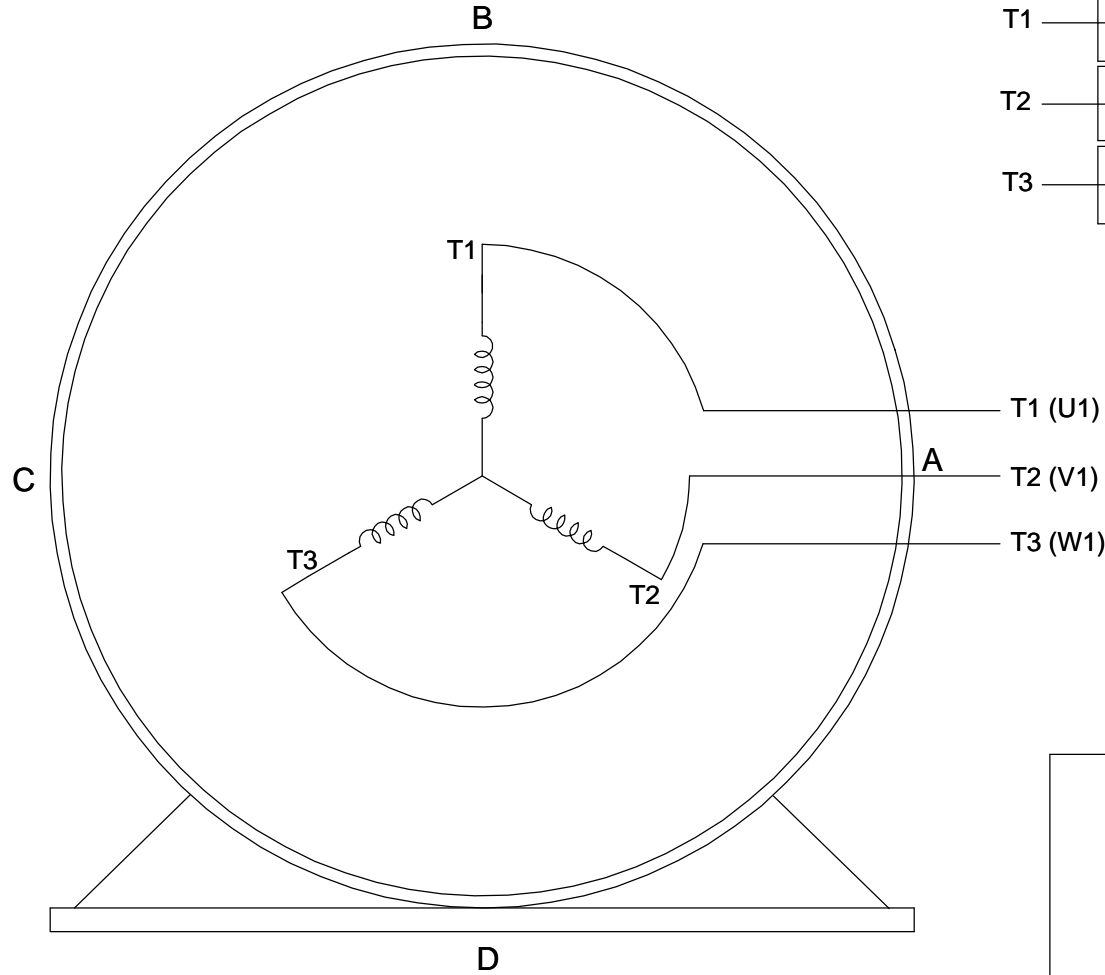
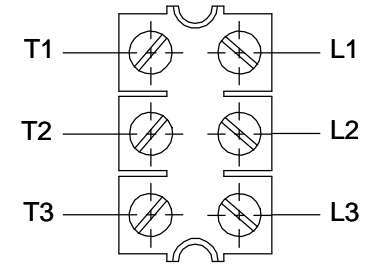
1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °
3. NAMPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

9	UPDATED MOUNTING HOLE NOTE	HV 08-07-2012	EH	TOLERANCES UNLESS SPECIFIED		DRAWN DRS 2/24/1999
8	UPDATED FRAME TO CURRENT STD'S. ISAAC 09-5049	JJB 01-17-2012	DEC	INCHES		CHK ML 2/25/1999
7	ADDED F2 VIEW	MSG 04-21-2010	MSG	x ±.1	APPR JL 2/25/1999	SCALE 5:32
6	REVISED FRAME AND DASH TABLE ISAAC09-5049	TJW 04-01-2010	EH	xx ±.02	TITLE OUTLINE	REF
5	UPDATED DRAWING	RJW 04-18-2007	ML	xxx ±.005	444/445T FR. - TEFC - STD	FMF
4	CHG TO SHORT FAN GUARD DESIGN PER CN39335	RWR 02-17-2007	ML	xxxx ±.0005	MATL	PAGE OF
NO	REVISION	BY & DATE	CHK	LANG ±7'30"	FINISH	REV
THIRD ANGLE PROJECTION				RFP	PREV	SIZE DRAWING NO
				NETWORK FILE NAME	SS517026	REV
				SIZE	B	DRAWING NO
				SS517026		REV
				SS517026		9

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

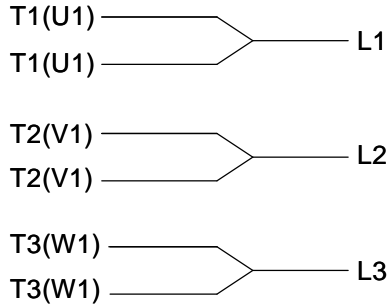
**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



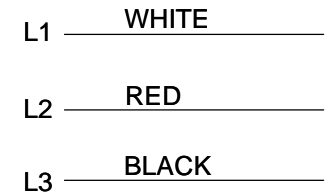
VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.		
		DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



445THFN9086

Submittal

Data @ 460 V

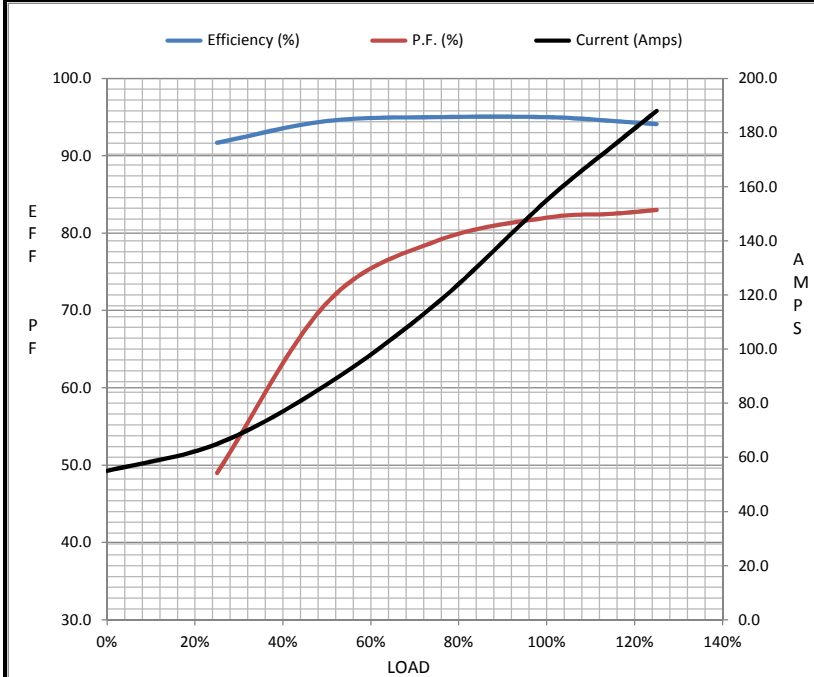
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	55.0	65.0	87.0	117	155	175	188	825
Torque (ft-lb)	0.00	137	275	414	553	637	693	775
RPM	1200	1196	1194	1190	1185	1,182	1180	0
Efficiency (%)		91.7	94.5	95.0	95.0	94.5	94.1	
P.F. (%)	4.0	49.0	71.0	79.0	82.0	82.5	83.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1185	1200
Current (Amps)	825	750	500	155	55.0
Torque (ft-lb)	775	725	1,250	553	0.00

Information Block				
HP	125.0			
Sync. RPM	1200			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
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	61.0 Lb-Ft ²			
Ref Wdg	T445693 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS517026-2025			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0250	0.0180	0.2040	0.2410	3.8590



Speed - Torque Curve

