

PRODUCT INFORMATION PACKET



Model No: 811587.00
Catalog No: 811587.00
125 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 444T Frame, TEFC
Severe Duty Motors



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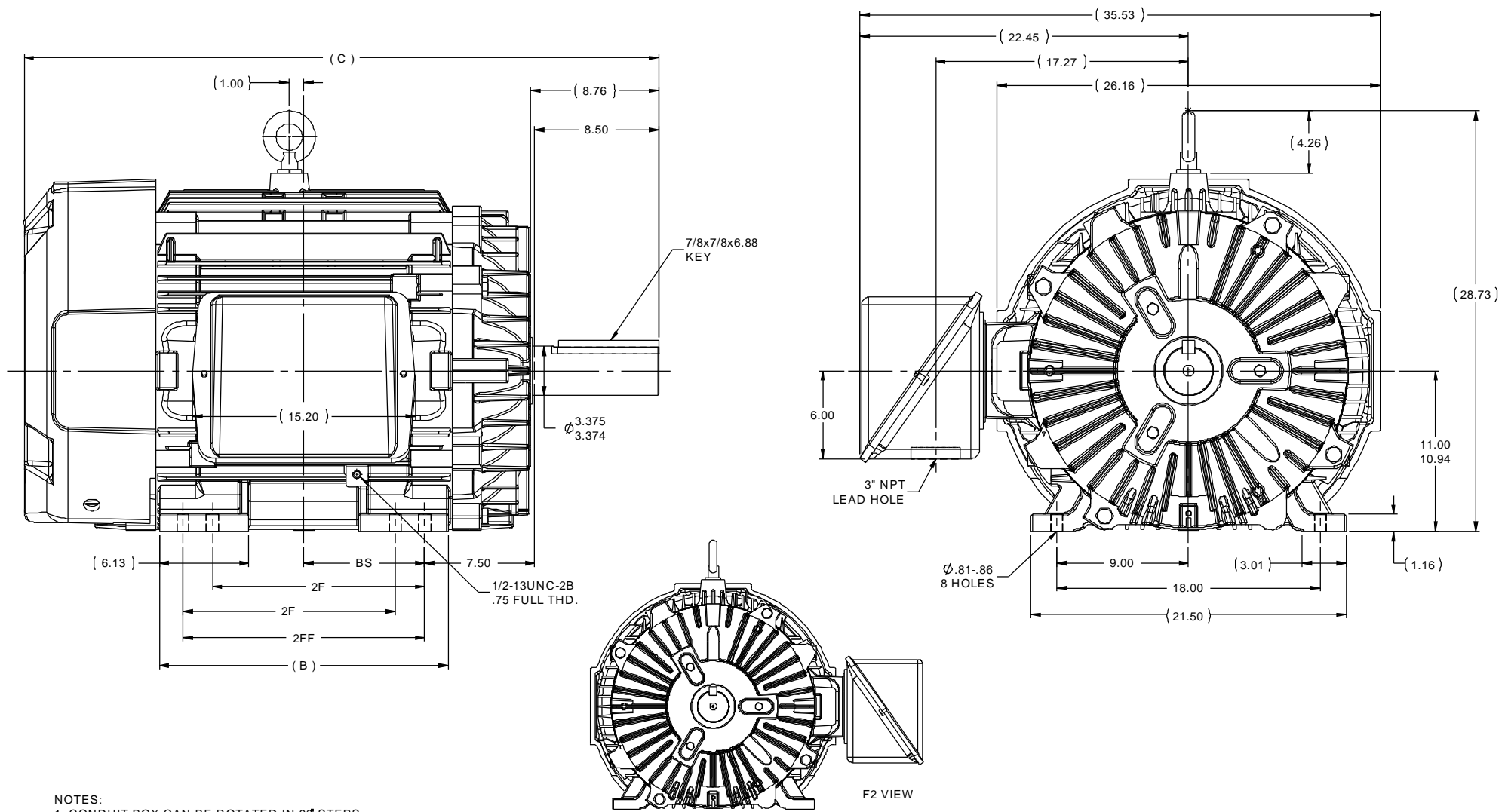
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	146.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	444T	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	4	Rotation	Reversible
Resistance Main	.04 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	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS517026LE-2025	Connection Drawing	A-EE7300U-LE

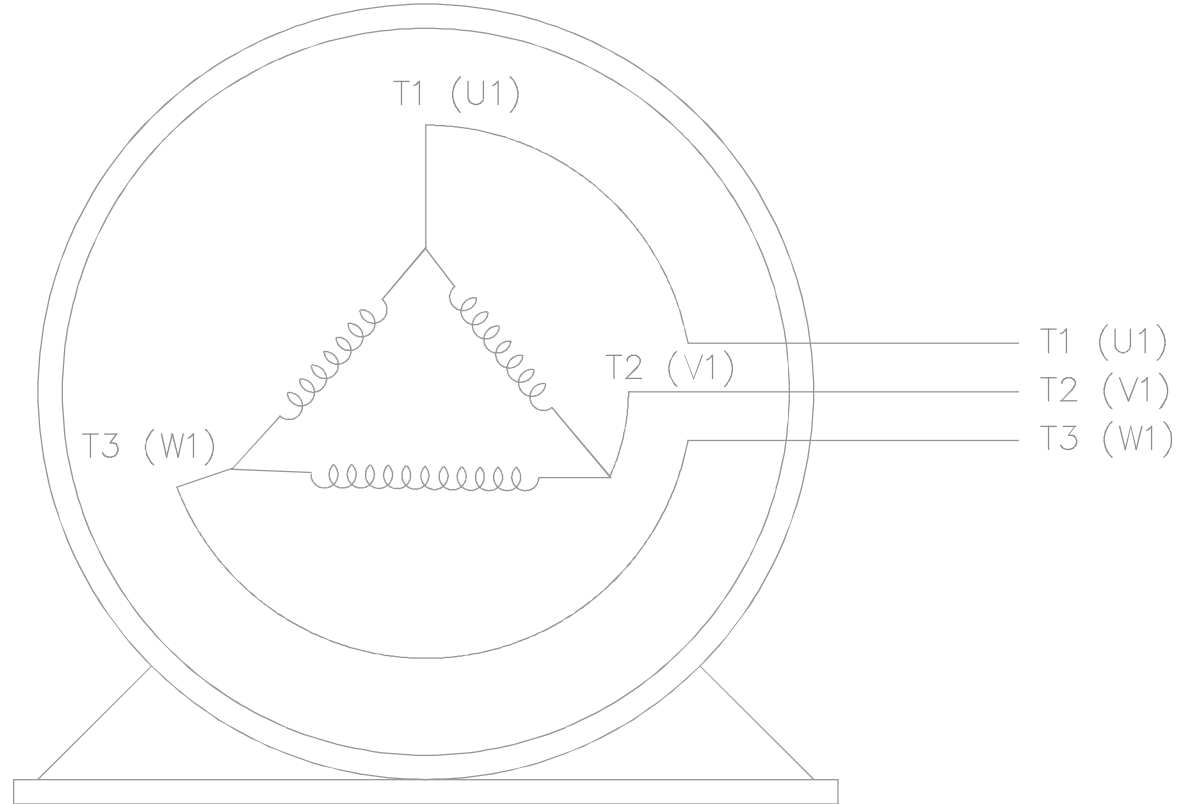
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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

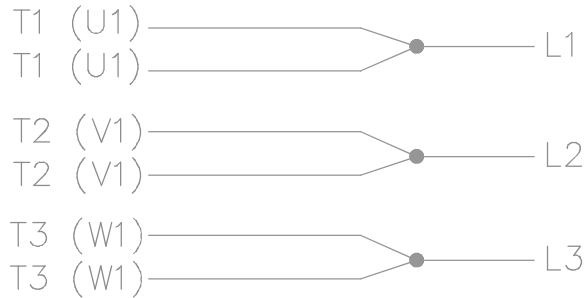
TOLERANCES UNLESS SPECIFIED		DEC INCHES		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MSG 02-18-2013	
		X	±.1			CHK	TB 02-18-2013
		XX	±.02		TITLE OUTLINE	APPR	MSG 02-18-2013
		XXX	±.005		444/445T FR. - TEFC - STD	SCALE	5:32
		XXXX	±.0005			REF	
		CHK	ANG ±7°30'			FMF	
1	UPDATED OUTLINE PER MU112461	JJB	03-19-2013	MH		PAGE	OF
	REVISION	BY & DATE					
		RFP	02-18-2013	PREV		SIZE	DRAWING NO
	THIRD ANGLE PROJECTION					B	SS517026LE
					NETWORK FILE NAME		REV
					SS517026LE		1


DASH	FRAME	B	C	BS	2F	2FF
2025	444/445T	19.75	43.35	8.25	14.50	16.50



VIEW OF TERMINAL END

IF MOTOR HAS MULTIPLE T'S PER LEAD CONNECT TOGETHER LIKE T'S



			TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN KL 03-24-2003	
			DEC.	INCHES		CHK GFH 03-24-2003	APPD JES 03-24-2003
			.X	± -	TITLE CONNECTION DIAGRAM 3Ø SINGLE VOLTAGE	SCALE 1=1	
			.XX	± -		REF	
			.XXX	± -			
			.XXXX	± -			
1	NEW DRAWING	MU45909	KL	03-24-2003	MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT			RFP		CAD FILE EE7300U-LE	SIZE A	DRAWING NO. EE7300U-LE
			DIST	WA			PAGE OF 1



CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CATALOG #: 811587.00

CONN. DIAGRAM: A-EE7300U-LE

OUTLINE: B-SS517026LE-2025

MOUNTING: F1/F2 CAPABLE

WINDING #: T4444143 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125	93.0	1800	1785	444T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	146	LINE OR INVERTER	CONTINUOUS	F1	1.15	40

FULL LOAD EFF:	95.4	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	95	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	84	3/4 LOAD PF:	80.5	1/2 LOAD PF:	71.5	95		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
368 LB-FT	907	500 LB-FT 136 %	950 LB-FT 258 %	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	40 LB-FT^2	- LB-FT^2	25 SEC.	-	1775 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	GREEN (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318	6316						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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E

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/19/2018

811587.00



Data @ 460 V

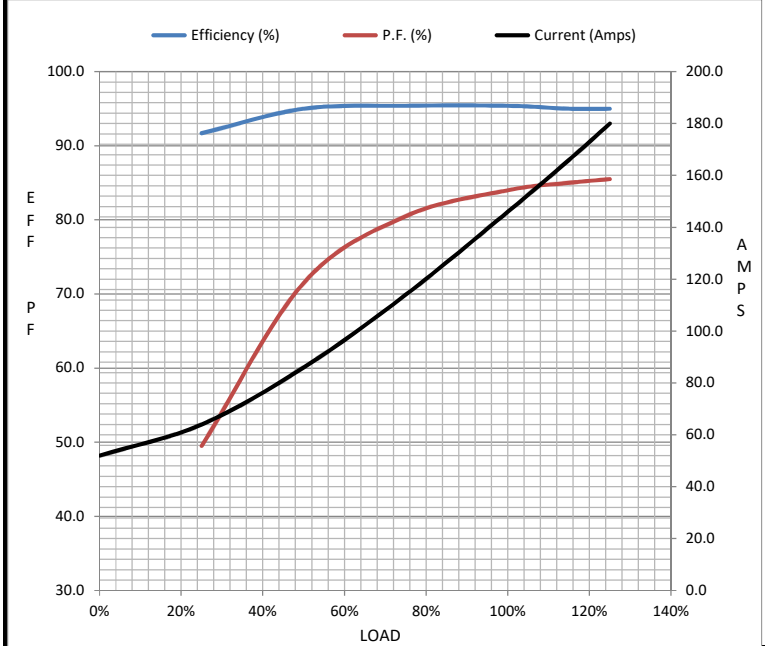
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	52.0	64.0	86.0	114	146	166	180	907
Torque (ft-lb)	0.00	91.5	183	275	368	423	461	500
RPM	1800	1797	1793	1790	1785	1.783	1780	0
Efficiency (%)		91.7	95.0	95.4	95.4	95.0	95.0	
P.F. (%)	4.5	49.5	71.5	80.5	84.0	85.0	85.5	26.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	907	800	600	146	52.0
Torque (ft-lb)	500	425	950	368	0.00

Information Block				
HP	125.0			
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	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	40.0 Lb-Ft ²			
Ref Wdg	T4444143 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS517026LE-2025			
Conn. Diag	A-EE7300U-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0300	0.0150	0.2170	0.1850	5.0440



Speed - Torque Curve

