

PRODUCT INFORMATION PACKET



Model No: LM80037
Catalog No: LM80037
125 HP Fire Pump Motor, 3 phase, 1800 RPM, 400 V, 444T Frame, TEFC
Fire Pump Motors



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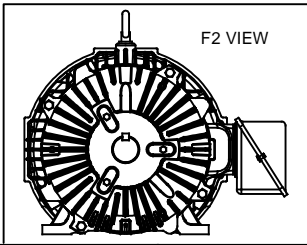
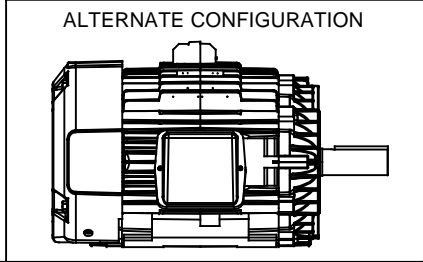
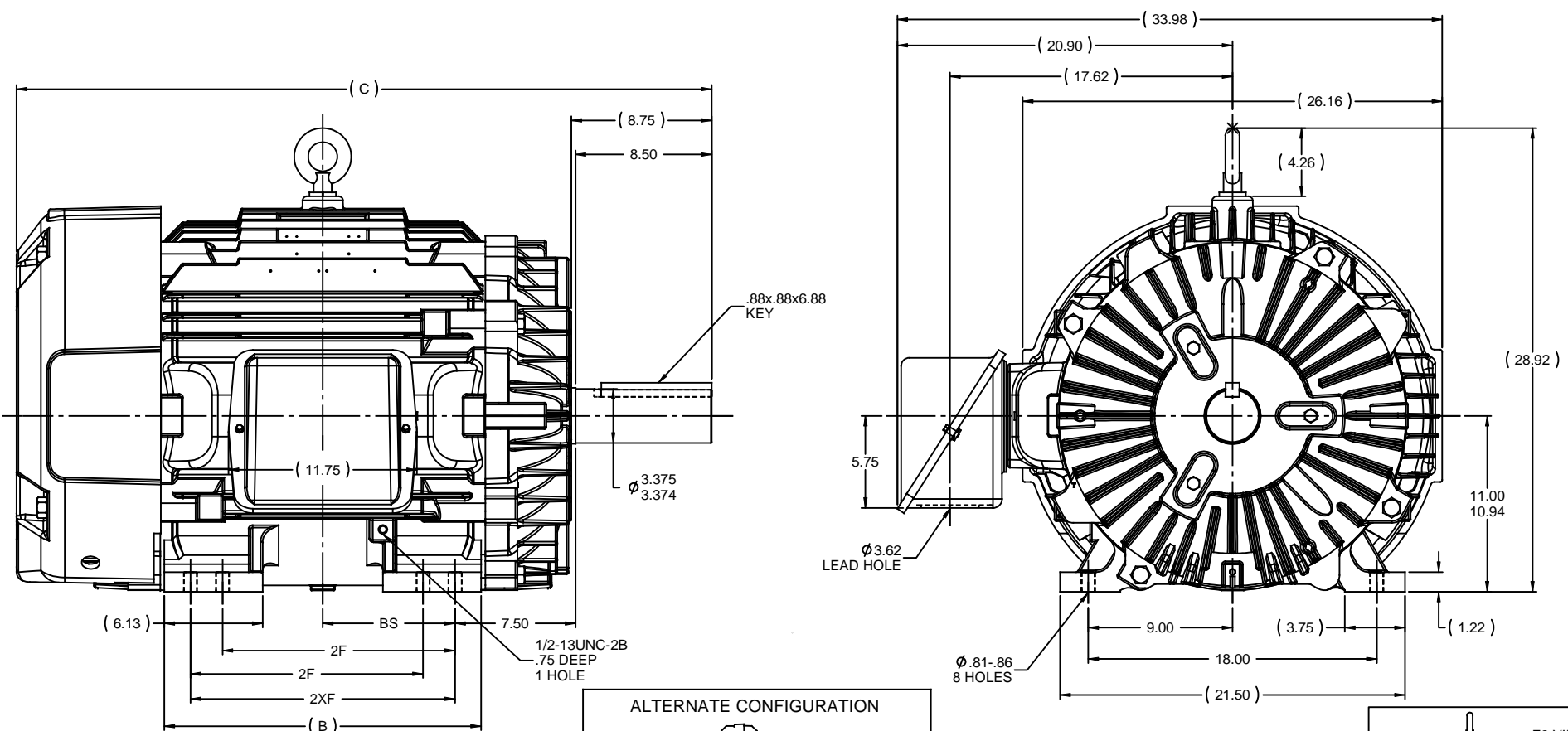
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	400 V
Current	167.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	86
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	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.036 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	20.27 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS513898LN-2025	Connection Drawing	A-EE7300BH-LN

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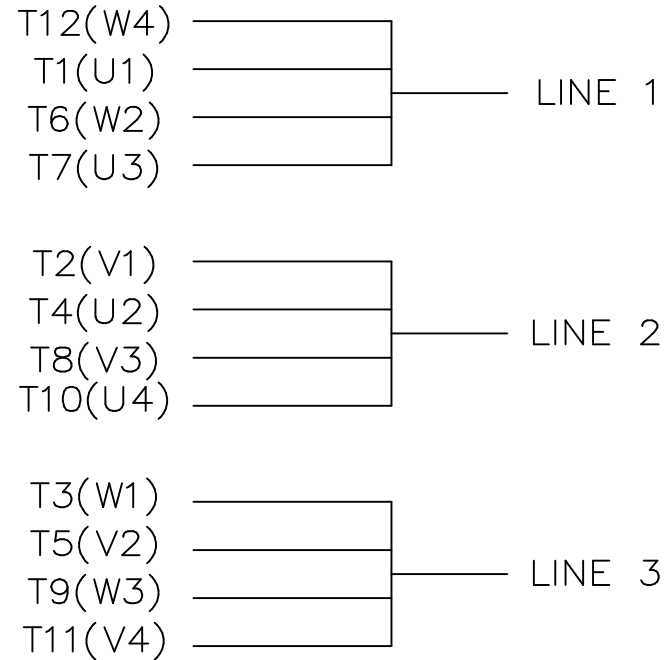
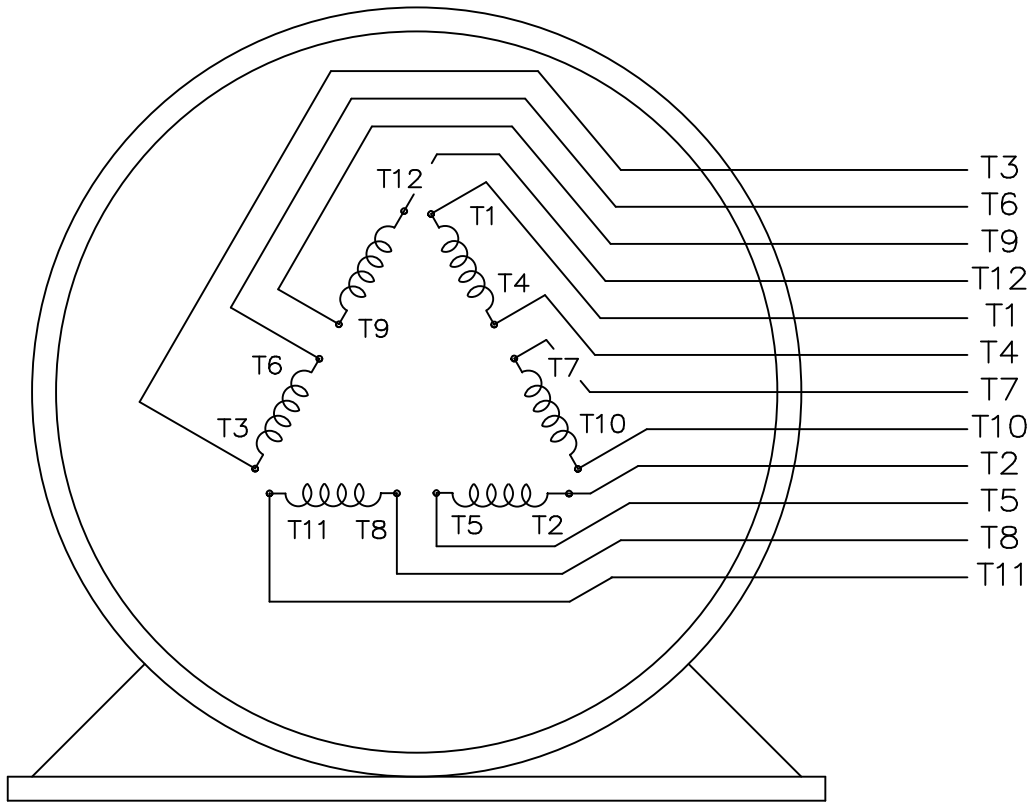


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.


DASH	FRAME	B	C	BS	2F	2XF
1825	444T	17.75	41.35	7.25	14.50	---
2025	444/445T	19.75	43.35	8.25	14.50	16.50

3		UPDATED FRAME, ADDED ALTERNATE CONFIGURATION.	JJB 1/5/2010	ML	XXX ±.005	TITLE OUTLINE - TEFC	444-445T FR. - STD	SCALE 5:32
2		CHG. FAN GUARD & CHG. C-DIM. PER CN39335	RWR 01-22-2007	ML	XXX ±.005			REF
1		NEW DRAWING MU35793	KL 02-05-2001	ML	XXX ±.0005	MATL		FMF
NO		REVISION	BY & DATE	CHK	ANG ±7'30"	FINISH		PAGE OF
		THIRD ANGLE PROJECTION		RFP		PREV		SIZE DRAWING NO
				NETWORK FILE NAME SS513898LN		REV		REV
						B		SS513898LN 3





VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN KL 04-23-2002		
				DEC.	INCHES		CHK DJK 04-24-2002		
				.X	±.1		APPD EAB 04-24-2002		
				.XX	±.01		SCALE 1=1		
2	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	OML	.XXX	±.005	TITLE CONNECTION DIAGRAM - EXTERNAL 12 LEAD - SINGLE VOLTAGE		
1	NEW DRAWING	MU41562	KL 04-12-02		.XXXX	±.0005	MAT'L.		
NO.	REVISION		BY & DATE	CHK	ANG	±1/2"	FINISH		
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 ee7300bh_ln		SIZE	DRAWING NO. PAGE OF	REV.
				DIST	WA-SB		A	EE7300BH-LN 2	2



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN
OUTLINE: B-SS513898LN-2025
WINDING: T4444141

CAT #: LM80037

NONE 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1785	444T	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	400	167	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	94.1	1/2 LD EFF	93.0	GTD EFF	ELECT. TYPE
F.L. PF	86.0	3/4 LD PF	83.0	1/2 LD PF	76.0	93.6	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
368 LB-FT	1,006	500 LB-FT 136%	875 LB-FT 238%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA		43.5 LB-FT²	0 LB-FT²	25 SEC.	0	1850 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS AVER

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.021	0.012	0.168	0.149	4.351	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	NONE PPR					
	NONE					

DATE:	9/4/2018	BRAKE: NONE NONE NONE				NONE	
		FT-LB:		NA			
		VOLTAGE:		NONE		HZ:	
		UL: NONE					

Data Sheet

Date: 9/4/2018

LM80037



Data @ **400 V**

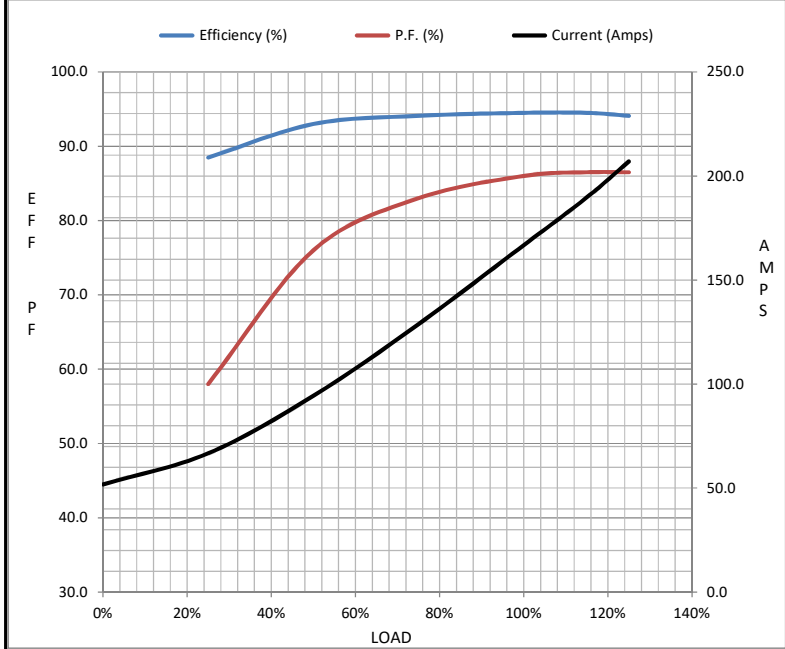
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	51.8	66.7	94.3	129	167	190	207	1,006
Torque (ft-lb)	0.00	91.5	183	275	368	425	460	500
RPM	1800	1795	1792	1788	1785	1,782	1780	0
Efficiency (%)		88.5	93.0	94.1	94.5	94.5	94.1	
P.F. (%)	7.5	58.0	76.0	83.0	86.0	86.5	86.5	25.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,006	920	575	167	51.8
Torque (ft-lb)	500	450	875	368	0.00

Information Block				
HP	125.0			
Sync. RPM	1800			
Frame	444			
Enclosure	TEFC			
Construction	TFN			
Voltage	400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	43.5 Lb-Ft ²			
Ref Wdg	T4444141 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS513898LN-2025			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0210	0.0120	0.1680	0.1490	4.3510



Speed - Torque Curve

