

PRODUCT INFORMATION PACKET



Model No: LM80096

Catalog No: LM80096

Fire Pump Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 444T Frame, TEFC



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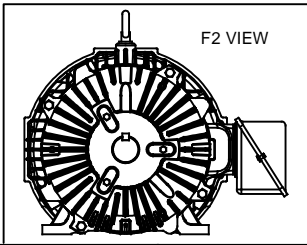
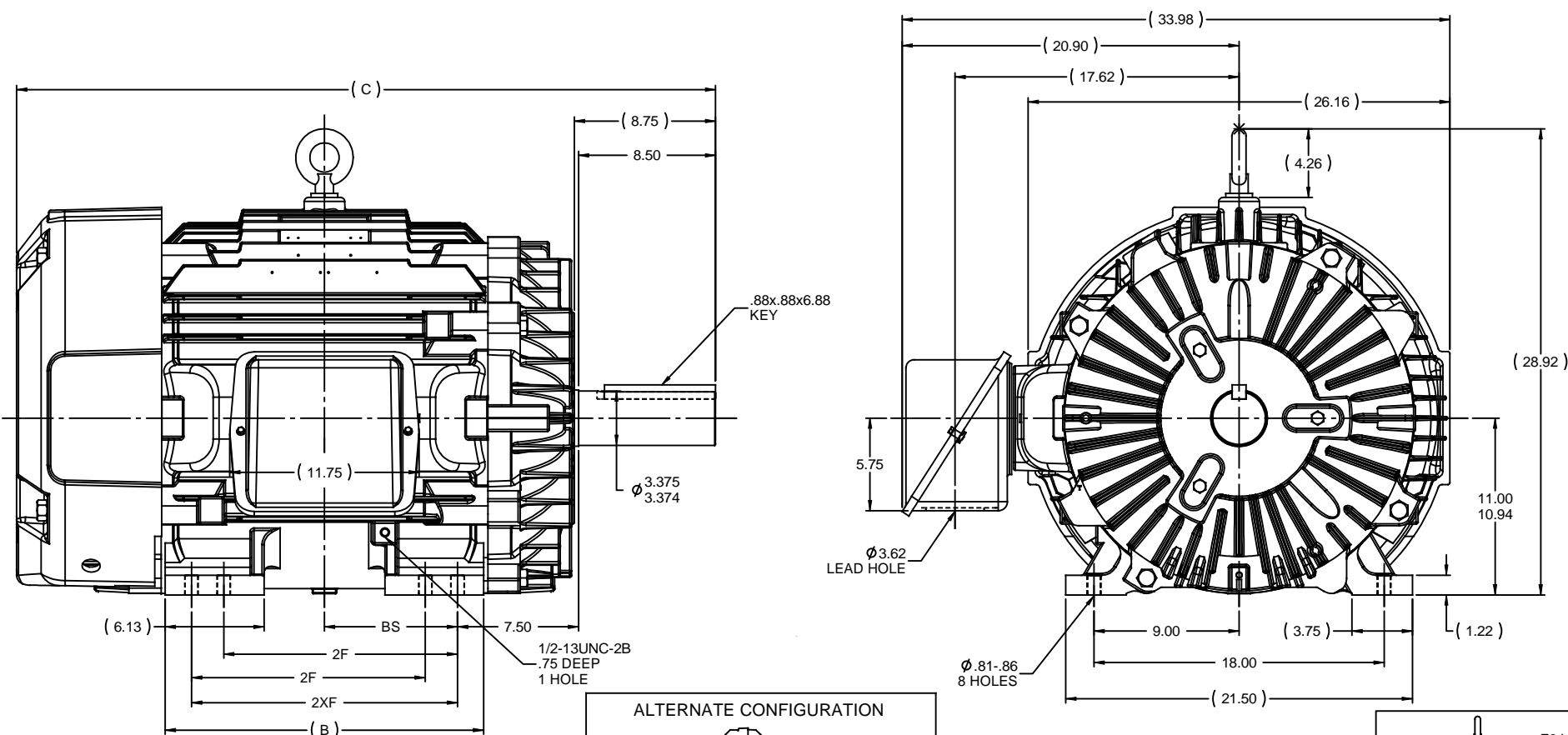


Nameplate Specifications

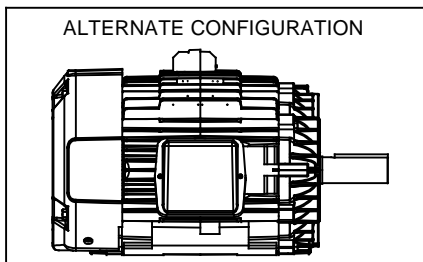
Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	444T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	145 & 140 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
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	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300BH-LN	Outline Drawing	B-SS513898LN-2025



- 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.

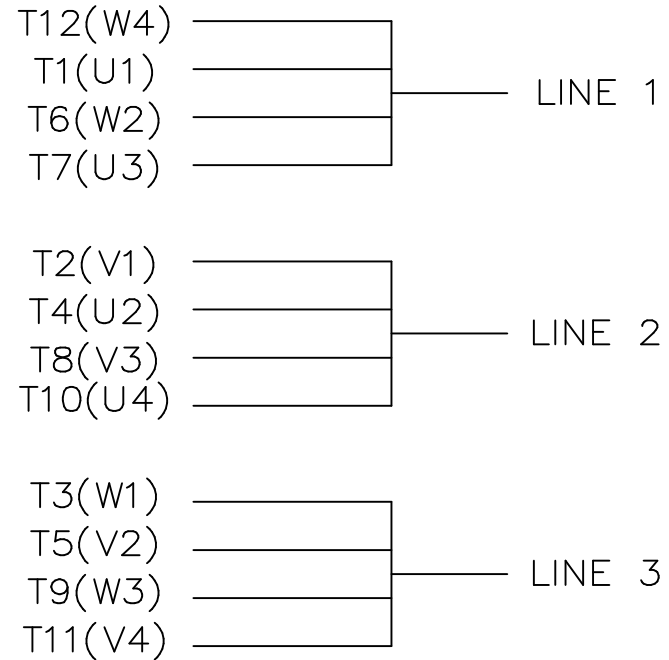
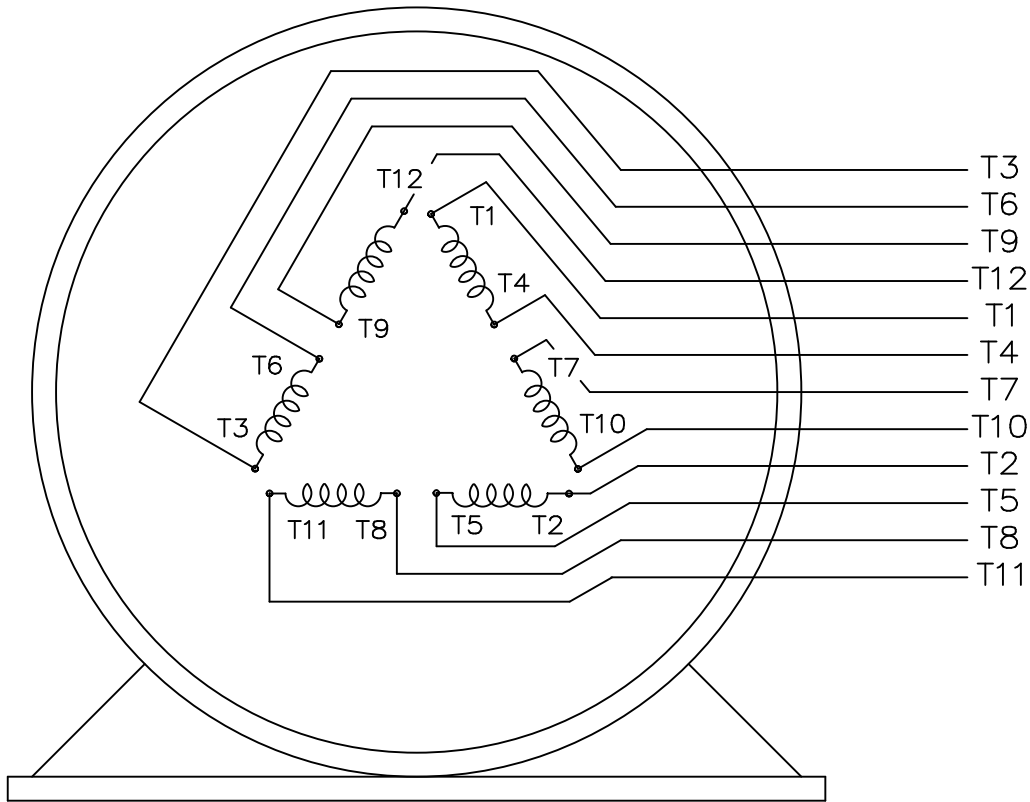


DASH	FRAME	B	C	BS	2F	2XF
1825	444T	17.75	41.35	7.25	14.50	---
2025	444/445T	19.75	43.35	8.25	14.50	16.50


REVISION		BY & DATE	CHK	ANG	±7'30"	FINISH	PREV	SIZE	DRAWING NO	REV
3	UPDATED FRAME, ADDED ALTERNATE CONFIGURATION.	JJB 1/5/2010	XX		±.03	TITLE OUTLINE - TEFC				
2	ADDED 2XF COLUMN TO TABLE PER ISAAC 09-5049	RWR 01-22-2007	ML		±.005	444-445T FR. - STD				
1	CHG. FAN GUARD & CHG. C-DIM. PER CN39335	KL 02-05-2001	XXX		±.0005	MATL				
	NEW DRAWING MU35793		XXX							

TOLERANCES UNLESS SPECIFIED		DRAWN		SCALE	
DEC	INCHES	KL	02-05-2001	5:32	
X	±.1	CHK	DJK	APPR	DJK

THIRD ANGLE PROJECTION		NETWORK FILE NAME		DRAWING NO		REV	
		SS513898LN		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



**2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN

CATALOG #: LM80096

OUTLINE: B-SS513898LN-2025

WINDING #: T4444141 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93.0&75.0	1800	1785&1485	444T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	145&140	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	94.5&93.6	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	86&86	3/4 LOAD PF:	83	1/2 LOAD PF:	76	93.6		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	875	500 LB-FT 136 %	875 LB-FT 238 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	43.5 LB-FT^2	- LB-FT^2	25 SEC.	-	1850 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

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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INVERTER TORQUE: NONE
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: 1/29/2018

LM80096



Data @ 460 V

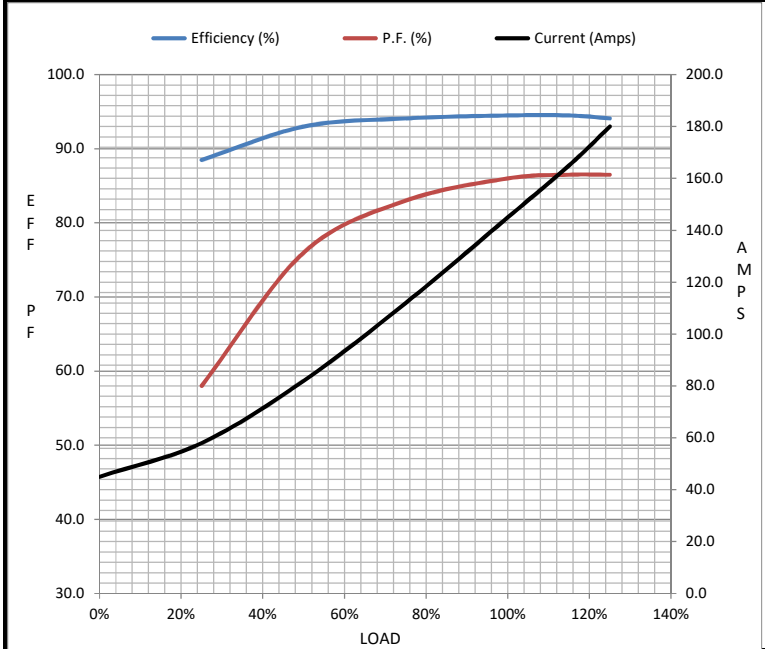
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	45.0	58.0	82.0	112	145	165	180	875
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)	875	800	500	145	45.0
Torque (ft-lb)	500	450	875	368	0.00

Information Block				
HP	125.0			
Sync. RPM	1800			
Frame	444			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380 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
0.0270	0.0160	0.2220	0.1970	5.7540



Speed - Torque Curve

