

# PRODUCT INFORMATION PACKET



Model No: LM80193  
Catalog No: LM80193  
125 HP Fire Pump Motor, 3 phase, 1800 RPM, 400 V, 444TS Frame, TEFC  
Fire Pump Motors



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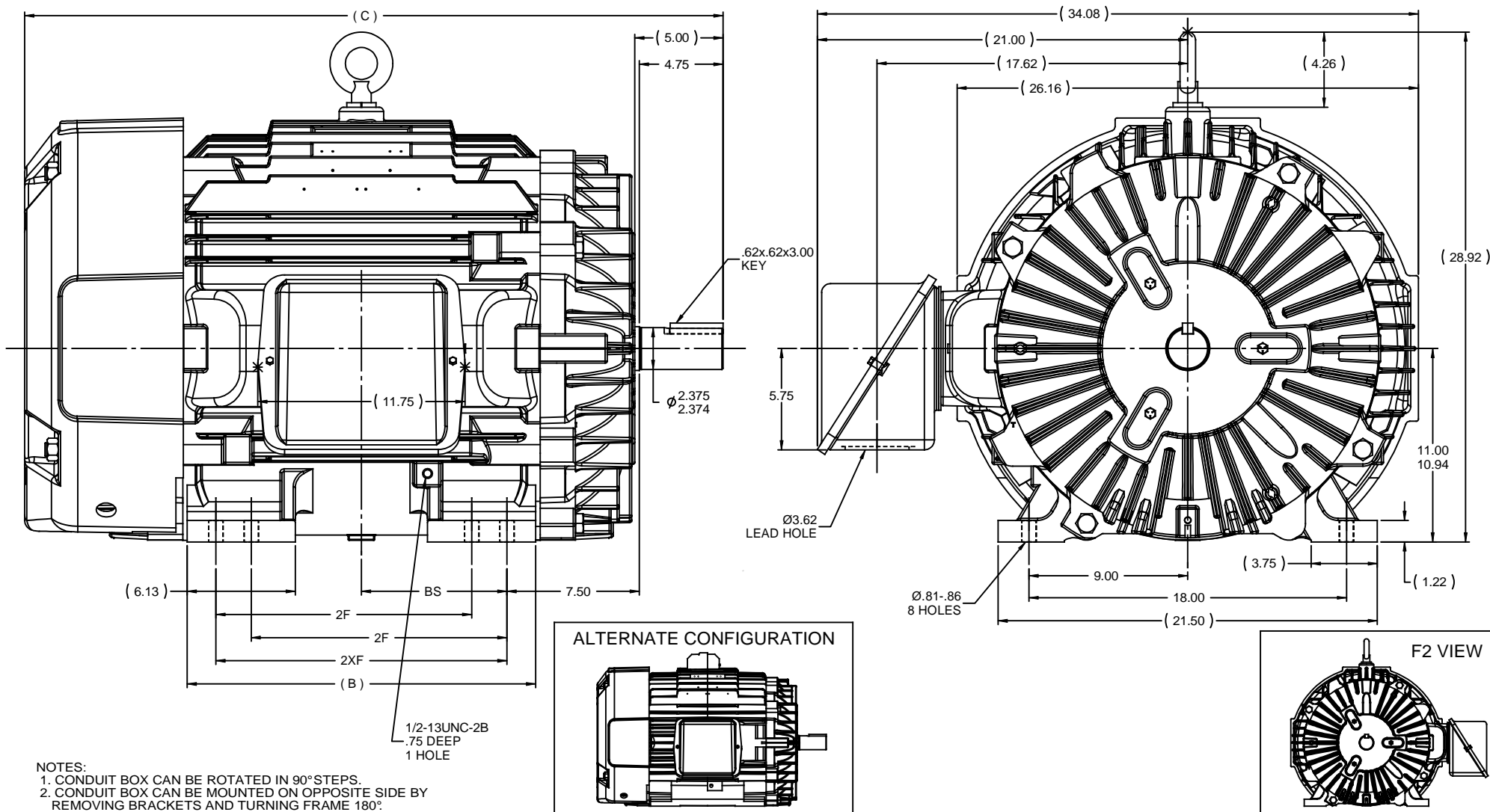
**Nameplate Specifications**

Output HP	<b>125 Hp</b>	Output KW	<b>93.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>400 V</b>
Current	<b>167.0 A</b>	Speed	<b>1785 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>94.5 %</b>	Power Factor	<b>86</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>444TS</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6313</b>	Opp Drive End Bearing Size	<b>6313</b>
UL	<b>No</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

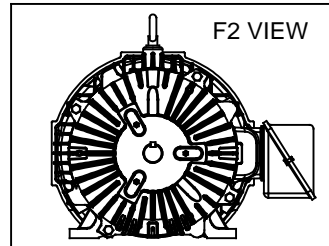
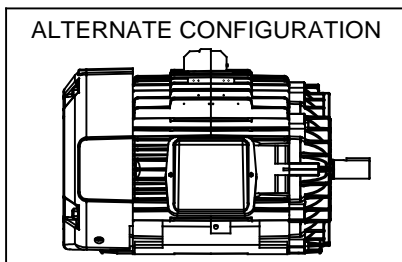
**Technical Specifications**

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Part Wdg Start &amp; Wye Start Delta Run</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.036 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>TS</b>	Overall Length	<b>39.60 in</b>
Frame Length	<b>20.27 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>4.75 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>A-EE7300BH-LN</b>	Outline Drawing	<b>B-SS514023LN-2025</b>

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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.



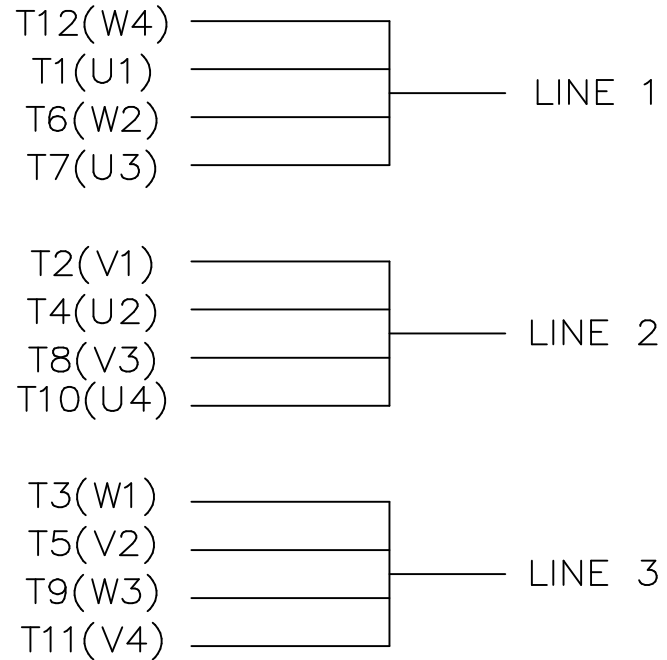
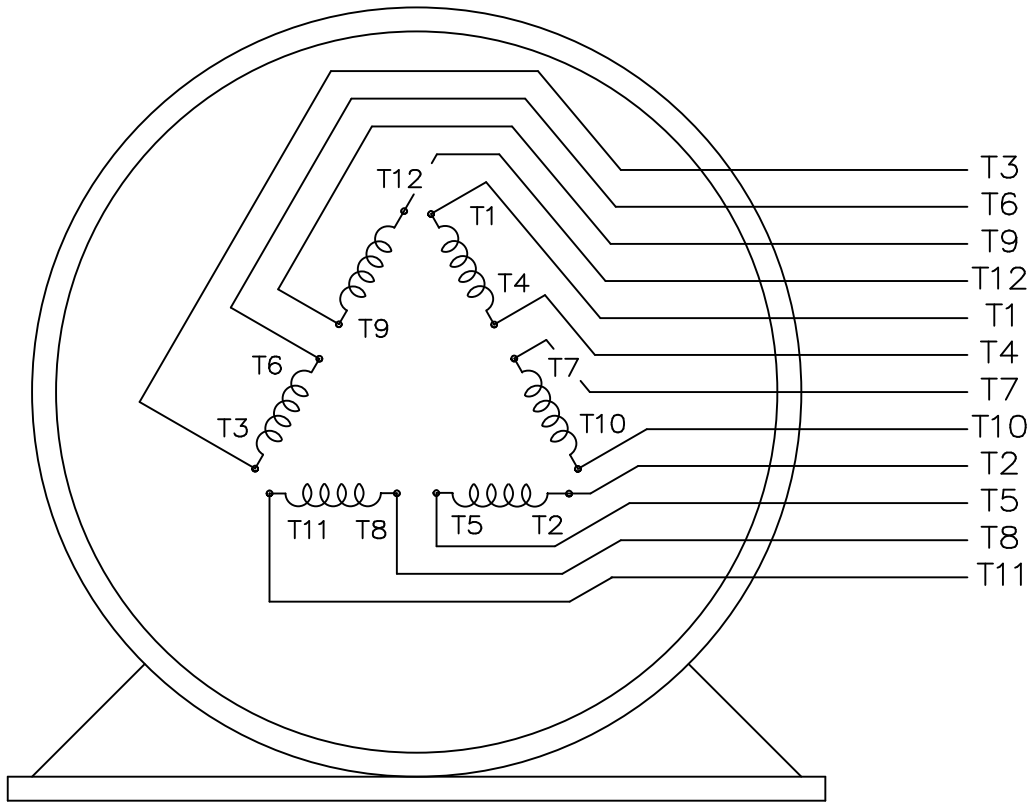
DASH	FRAME	B	C	2F	2XF	BS
1825	444TS	17.75	37.60	14.50	---	7.25
2025	444/445TS	19.75	39.60	14.50	16.50	8.25

REVISION		BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE	OF
3	UPDATED WITH NEW FRAME, 28.92 DIMENSION WAS 26.52.	JJB 12/16/2009	MH	XX	±.03	TITLE OUTLINE	1	3
2	ADDED RPEVIOUS CONFIG. & F2 VIEW PER ISAAC 09-5049	RWR 01/22/2007	ML	XXX	±.005	444/445TS FR. - TEFC - STD.	2	3
1	CHG. FAN GUARD & REV. C-DIM. PER CN39335	KL 02/22/2002	KL	XXX	±.0005		3	3
1	NEW DRAWING - MU40670					MATL		




TOLERANCES UNLESS SPECIFIED:  
 DEC INCHES  
 x ±.1  
 xx ±.03  
 xxx ±.005  
 xxxx ±.0005

DRAWN KL 02-21-2002  
 CHK DJK 02-21-2002  
 APPR JES 02-21-2002  
 SCALE 1:5.25  
 REF  
 FMF  
 NETWORK FILE NAME SS514023LN  
 SIZE B DRAWING NO SS514023LN REV 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	ML	.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-SS514023LN-2025  
WINDING: T4444141

CAT #: LM80193

NONE 4

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1785	444TS	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	WATTSAVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6313	6313						

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:	9/3/2018	BRAKE: NONE NONE				NONE
		FT-LB:	NA			
		VOLTAGE:	NONE	HZ:		
UL: NONE						

Data Sheet

Date: 9/3/2018

LM80193



Data @ **400 V**

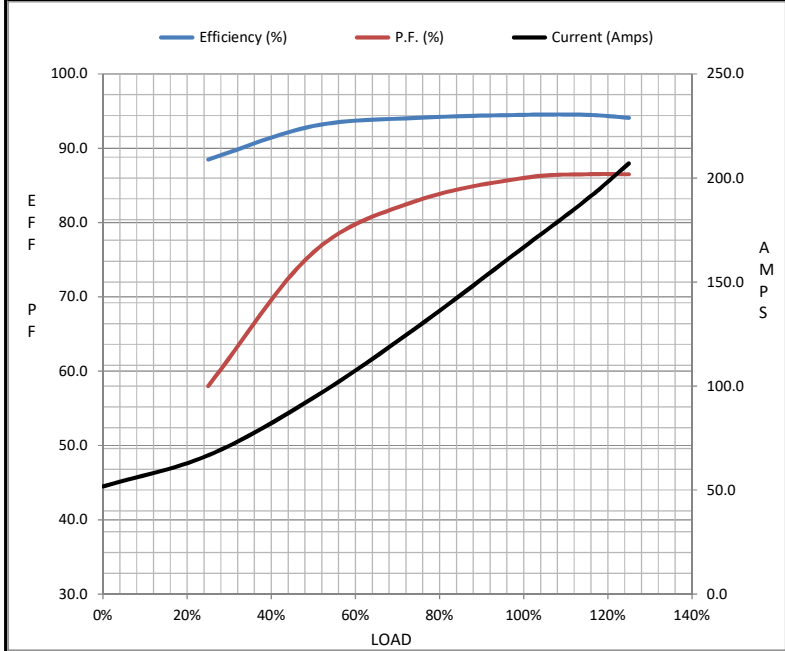
Motor Load Data

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 <sup>2</sup>	43.5 Lb-Ft <sup>2</sup>			
Ref Wdg	T4444141 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514023LN-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

