

PRODUCT INFORMATION PACKET



Model No: LM80151
Catalog No: LM80151
150 HP Fire Pump Motor, 3 phase, 1800 RPM, 400 V, 444T Frame, ODP
Fire Pump Motors



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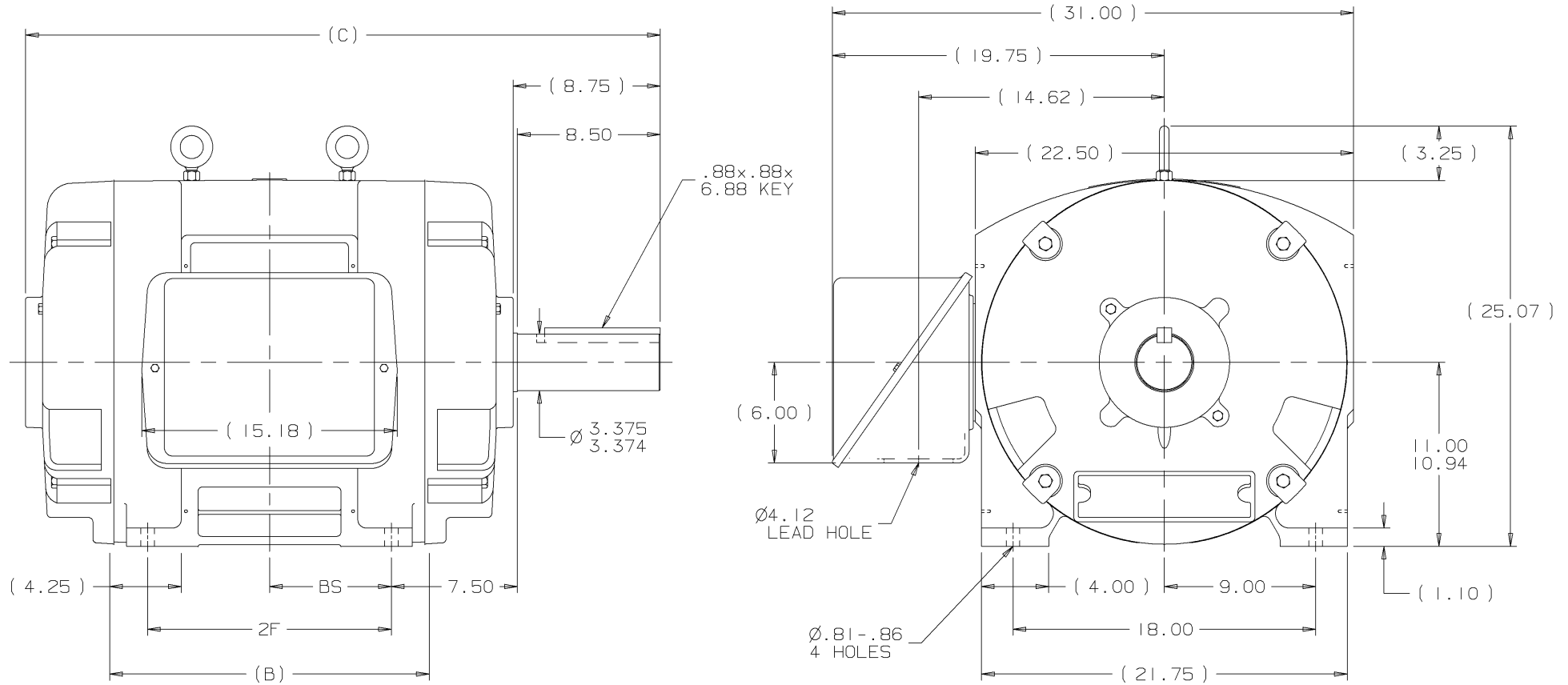
Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	400 V
Current	199.0 A	Speed	1782 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	444T	Enclosure	Drip Proof
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	12
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	.033 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	37.75 in
Frame Length	18.52 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS509449LN-1850	Connection Drawing	A-EE7300BH-LN

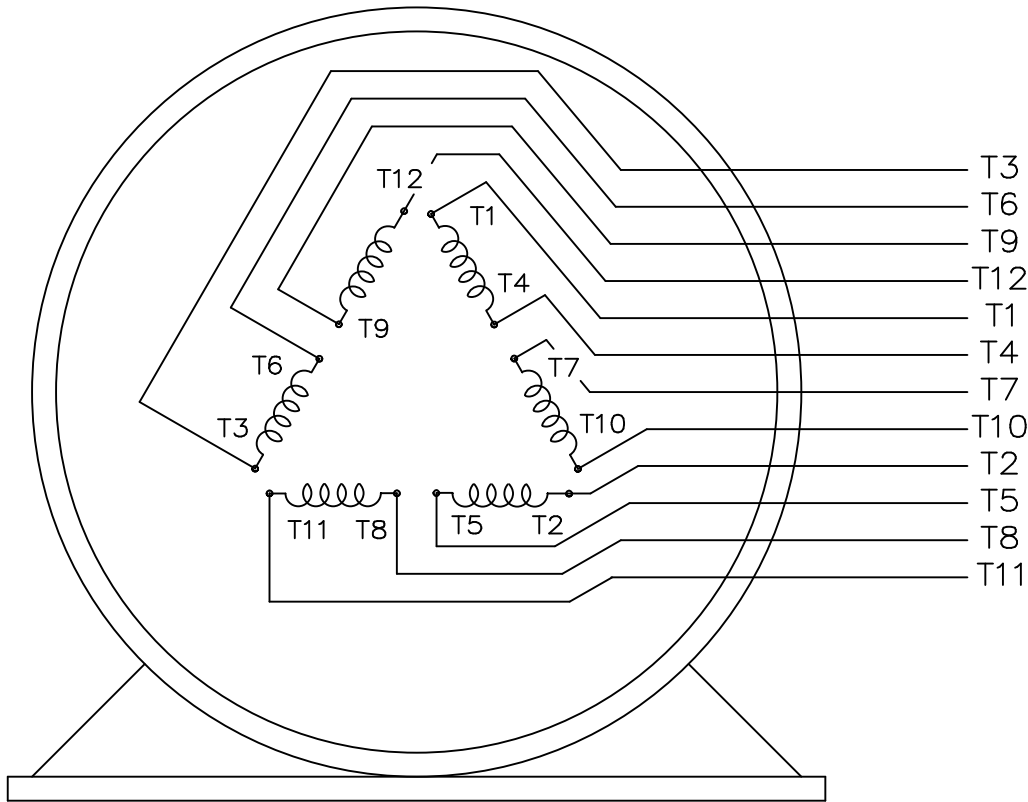
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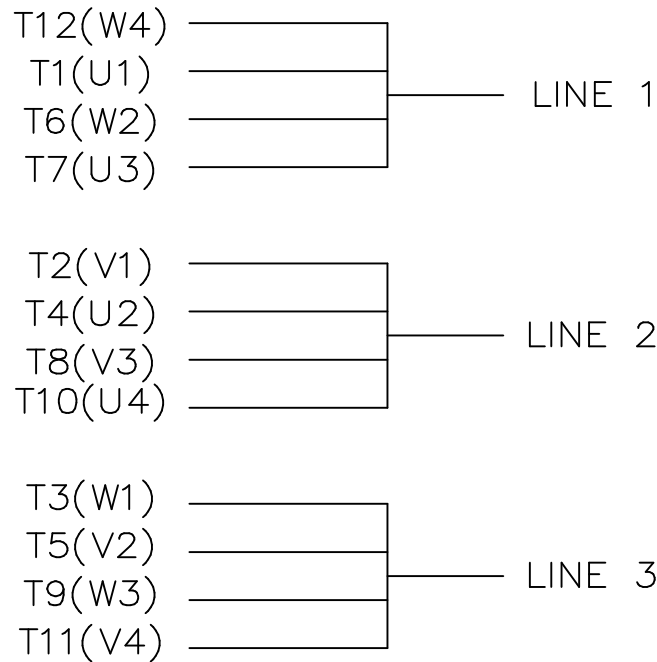
NOTES:

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

						TOLERANCES UNLESS SPECIFIED				DRAWN KML 11-30-2001	
						DEC. TOLERANCE				CHK DJK 12-04-2001	
						.X ±.1				APPD JES 12-04-2001	
						.XX ±.03		TITLE OUTLINE 440T FR. - DR.PR.		SCALE	
						.XXX ±.005				REF	
						.XXXX ±.0005		MAT'L.		FMF	
DASH	FRAME	B	C	2F	BS					PREV	
1850	444T	17.00	37.75	14.50	7.25						
2050	445T	19.00	39.75	16.50	8.25						



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	TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD – SINGLE VOLTAGE				SCALE 1=1			
2	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2000	ML	.XXX	±.005					REF			
1	NEW DRAWING MU41562	KL 04-12-02		.XXXX	±.0005	MAT'L.				FMF			
NO.	REVISION		BY & DATE	CHK	ANG	±1/2'	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 ee7300bh_ln			SIZE	DRAWING NO.	PAGE OF	REV.	
				DIST WA-SB					A	EE7300BH-LN		2	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN

CAT #: LM80151

OUTLINE: B-SS509449LN-1850

WINDING: T4444115

NONE 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	1800	1782	444T	DP	TDS	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	400	199	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	94.1	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	85.0	3/4 LD PF	83.0	1/2 LD PF	77.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
442 LB-FT	1,150	775 LB-FT 175%	975 LB-FT 221%	55

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA		37.0 LB-FT²	700 LB-FT²	20 SEC.	2	1125 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						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
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
0.018	0.012	0.138	0.167	3.856	0.150	ODE

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

DATE: 8/31/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: NONE	

Data Sheet

Date: 8/31/2018

LM80151



Data @ 400 V

Motor Load Data

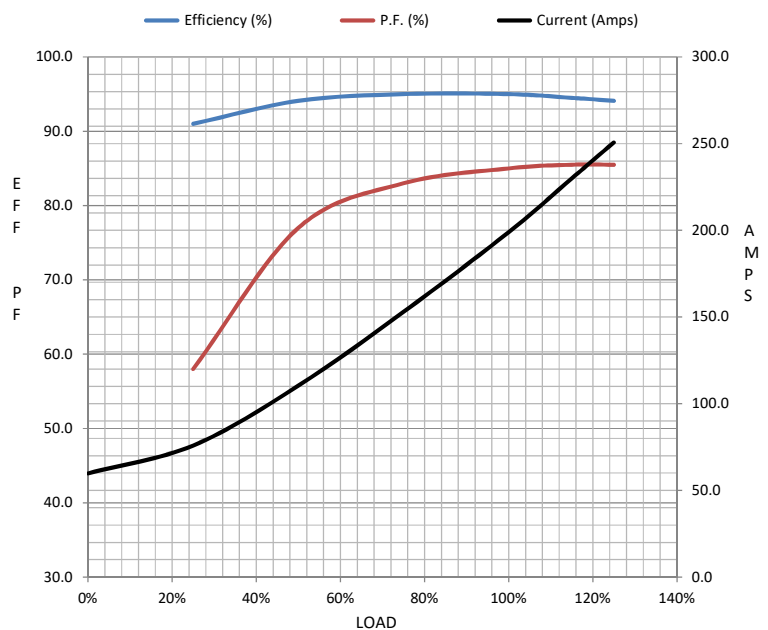
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	59.8	75.9	110	153	199	230	251	1,150	
Torque (ft-lb)	0.00	110	220	331	442	510	555	775	
RPM	1800	1795	1792	1785	1782	1,780	1775	0	
Efficiency (%)		91.0	94.1	95.0	95.0	94.5	94.1		
P.F. (%)	6.0	58.0	77.0	83.0	85.0	85.5	85.5	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1782	1800
Current (Amps)	1,150	978	633	199	59.8
Torque (ft-lb)	775	700	975	442	0.00

Information Block

HP	150.0			
Sync. RPM	1800			
Frame	444			
Enclosure	DP			
Construction	TDS			
Voltage	400		V	
Frequency	60		Hz	
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	55		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	37.0		Lb-Ft²	
Ref Wdg	T4444115 NONE			
Sound Pressure @ 1M	80		dBA	
VFD Rating	NONE			
Outline Dwg	B-SS509449LN-1850			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0180	0.0120	0.1380	0.1670	3.8560



Speed - Torque Curve

