

PRODUCT INFORMATION PACKET



Model No: LM80162

Catalog No: LM80162

Fire Pump Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445TS Frame, DP



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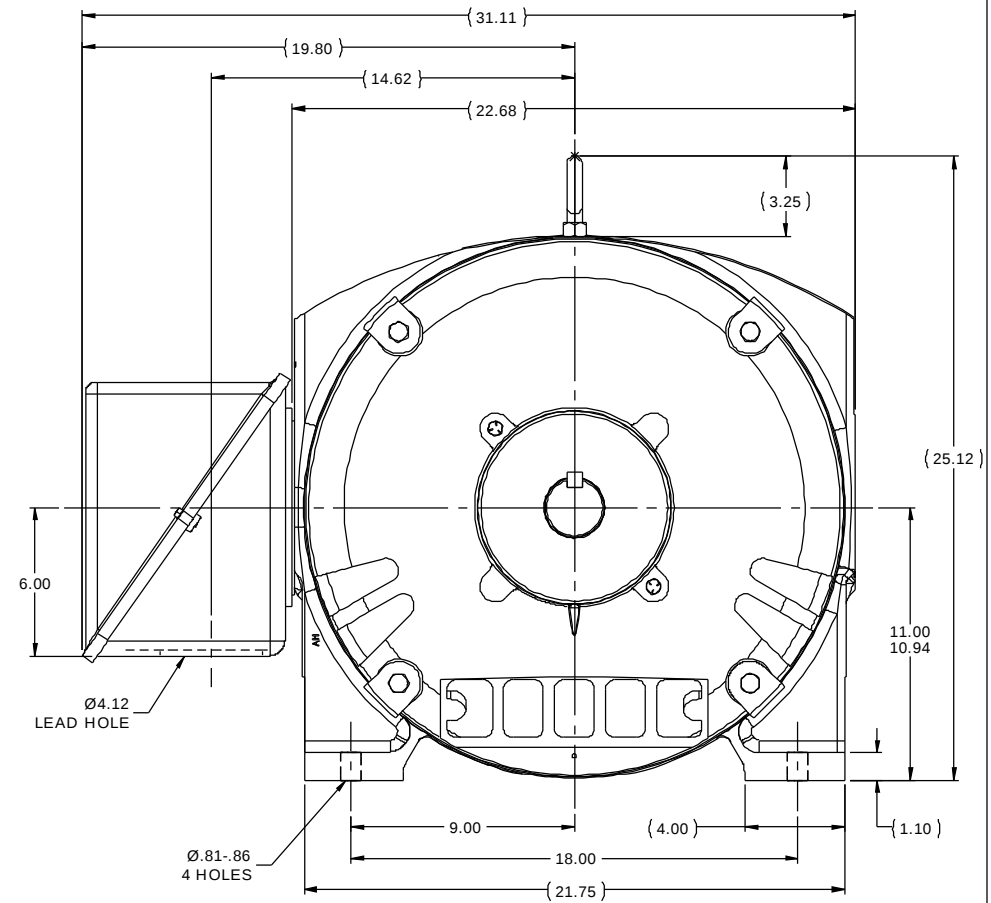
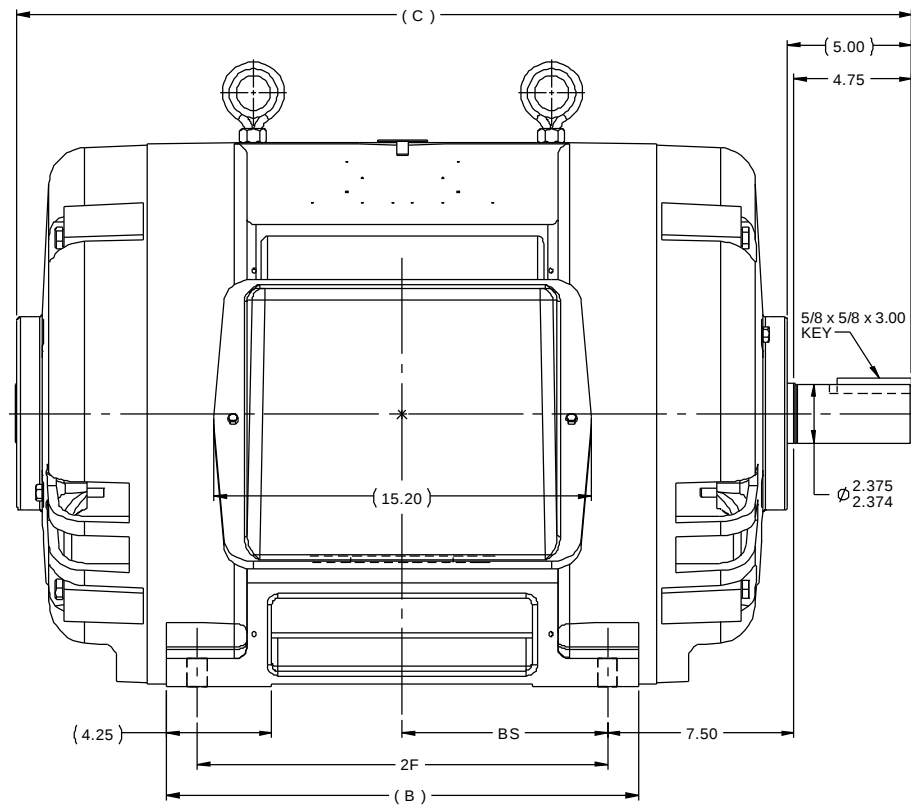


Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	285 & 280 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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	.022 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	36.00 in
Frame Length	20.52 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300BH-LN	Outline Drawing	B-SS509642LN-2050



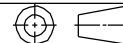
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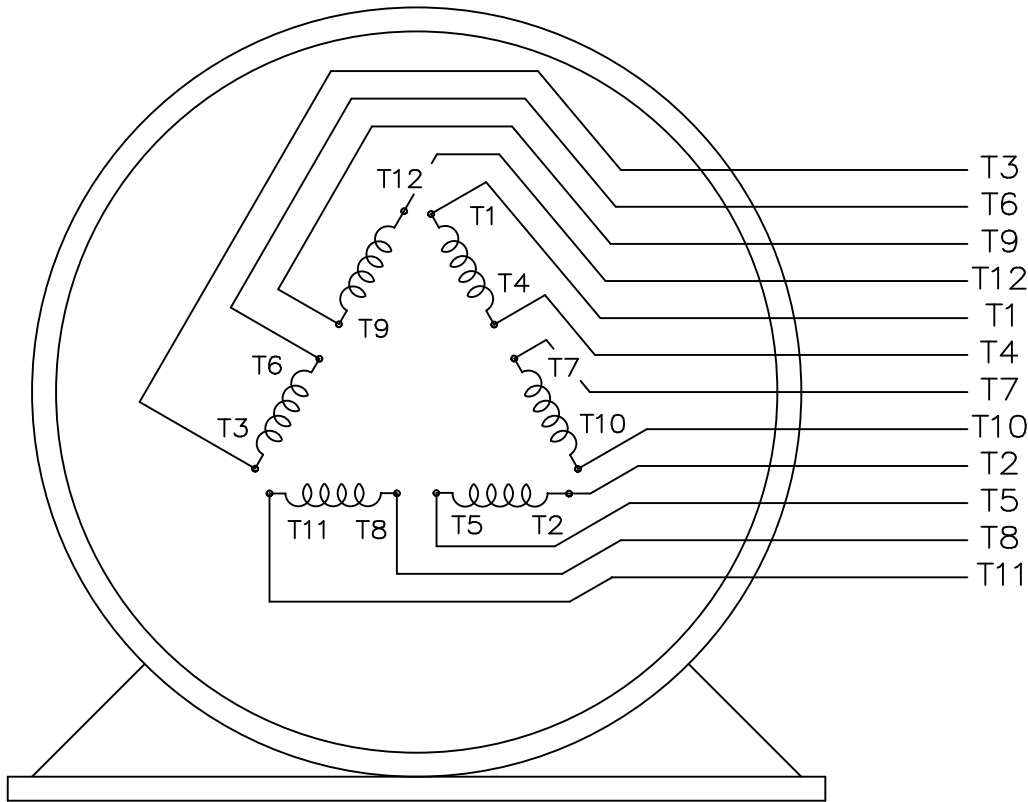
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS
1850	444TS	17.00	34.00	14.50	7.25
2050	445TS	19.00	36.00	16.50	8.25

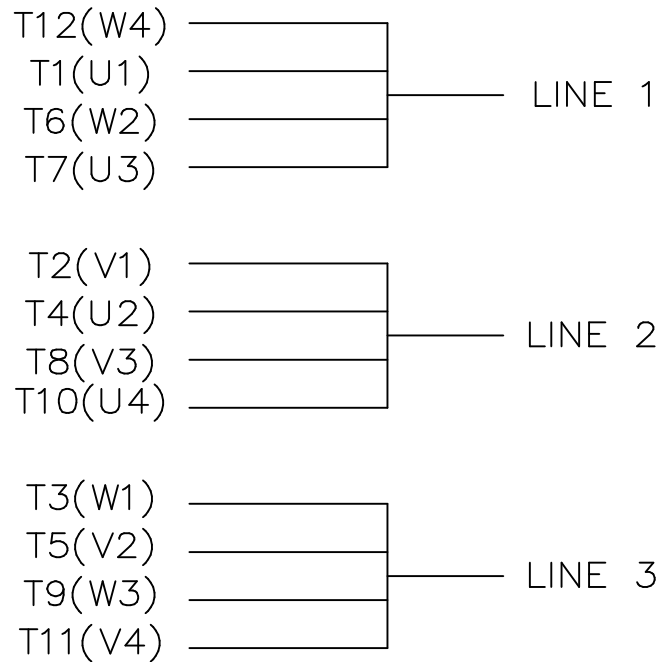
				TOLERANCES UNLESS SPECIFIED				Lincoln MOTORS				DRAWN KL 07-31-2007			
				DEC INCHES								CHK GFH 07-31-2003			
				X ±.1								APPR JES 07-31-2003			
				XX ±.03				TITLE OUTLINE				SCALE 1:5			
				TDB XXX ±.005				444/445TS FR. - DR. PR. STD.				REF			
				KL 07-31-2007 XXXX ±.0005				MAT'L				FMF MU47677			
				CHK ANG ±1/2°				FINISH				PAGE OF			
				RFP 07-31-2003				PREV				SIZE B			
				NETWORK FILE NAME SS509642LN								DRAWING NO SS509642LN			
												REV 2			

THIRD ANGLE PROJECTION





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 05/24/2004	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 #: LM80162

OUTLINE: B-SS509642LN-2050

WINDING: T445467

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1800	1780	445TS	DP	TDS	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	285&280	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.8	1/2 LD EFF	95.8	GTD EFF		ELECT. TYPE	
F.L. PF	86.0	3/4 LD PF	85.0	1/2 LD PF	82.0	95.0		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
738 LB-FT	1,550	925 LB-FT 125%	1,600 LB-FT 217%	65

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA		46.0 LB-FT²	1050 LB-FT²	20 SEC.	2	1450 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						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
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
0.016	0.01	0.141	0.13	3.763	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

LM80162



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	68.0	95.0	152	215	285	330	360	1,550	
Torque (ft-lb)	0.00	183	366	552	738	850	928	925	
RPM	1800	1795	1790	1785	1780	1,775	1772	0	
Efficiency (%)		95.0	95.8	95.8	95.4	95.0	94.5		
P.F. (%)	4.5	66.0	82.0	85.0	86.0	86.0	86.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	900	1725	1780	1800					
Current (Amps)	1,550	1,400	900	285	68.0					
Torque (ft-lb)	925	850	1,600	738	0.00					
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Information Block				
						HP		250.0		
						Sync. RPM		1800		
						Frame		445		
						Enclosure		DP		
						Construction		TDS		
						Voltage		460#380	V	
						Frequency		60	Hz	
						Design		B		
						LR Code letter		F		
						Service Factor		1.15		
						Temp Rise @ FL		65	° C	
						Duty		CONT		
						Ambient		40	° C	
						Elevation		1,000	feet	
						Rotor/Shaft wk ²		46.0	Lb-Ft ²	
						Ref Wdg		T445467	NONE	
Sound Pressure @ 1M		80	dBA							
VFD Rating		NONE								
Outline Dwg		B-SS509642LN-2050								
Conn. Diag		A-EE7300BH-LN								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.0160		0.0100		0.1410		0.1300		3.7630		

Speed - Torque Curve

