

# PRODUCT INFORMATION PACKET



Model No: LM80022  
Catalog No: LM80022

Fire Pump Motor, 400 & 300 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447/449T Frame, TEFC



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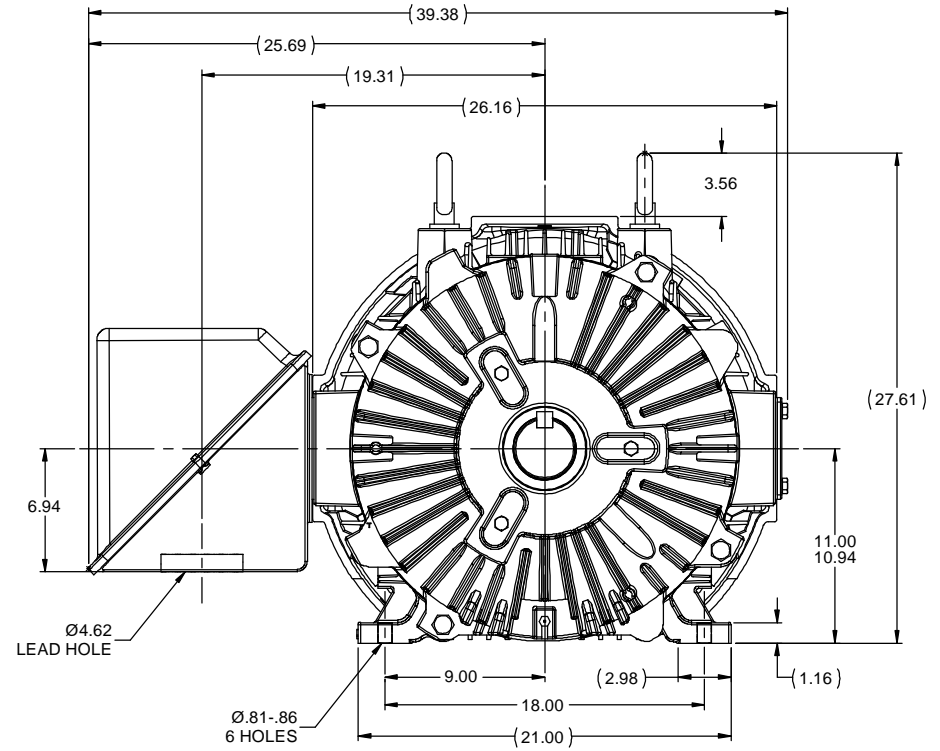
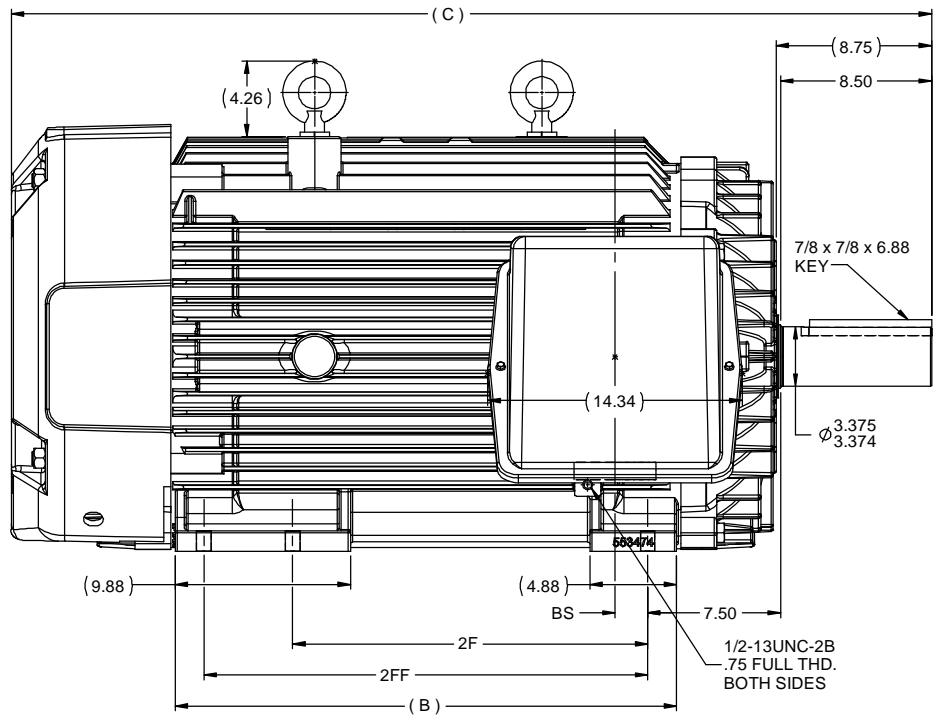


### Nameplate Specifications

Phase	3	Output HP	400 & 300 Hp
Output KW	300.0 & 224.0 kW	Voltage	460 & 380 V
Speed	1785 & 1486 rpm	Service Factor	1.15 & 1.15
Frame	447/449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	448 & 410 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
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	.007 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	51.86 in
Frame Length	28.75 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-SS515635LN-2875



NOTES:  
 1- C'BOX CAN BE ROTATED IN 90° STEPS.  
 2- NAMEPLATES TO BE READ FROM C'BOX SIDE OF MOTOR.  
 3- C'BOX CAN BE MOUNTED IN F2 POSITION.

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25	51.86	20.00	---	1.84
2875	449T	28.25	51.86	---	25.00	1.84

REVISION		BY & DATE	CHK	LANG	±1/2°	FINISH	NO	OF
4	UPDATED FRAME TO CURRENT STD'S. ISAAC 09-5049	JJB 4/13/2012	MH	X	±.1			
3	REMOVED BAFFLE CN 39113	DRS 7/22/2005	ML	XX	±.03	TITLE OUTLINE		
2	ADDED EXTERNAL BAFFLE CN 39113	DRS 6/22/2005	ML	XXX	±.005	447-449T FR. - TEFC - STD.		
1	NEW DRAWING MU40937	KL 3/27/2002	JHL	XXXX	±.0005	MATL		

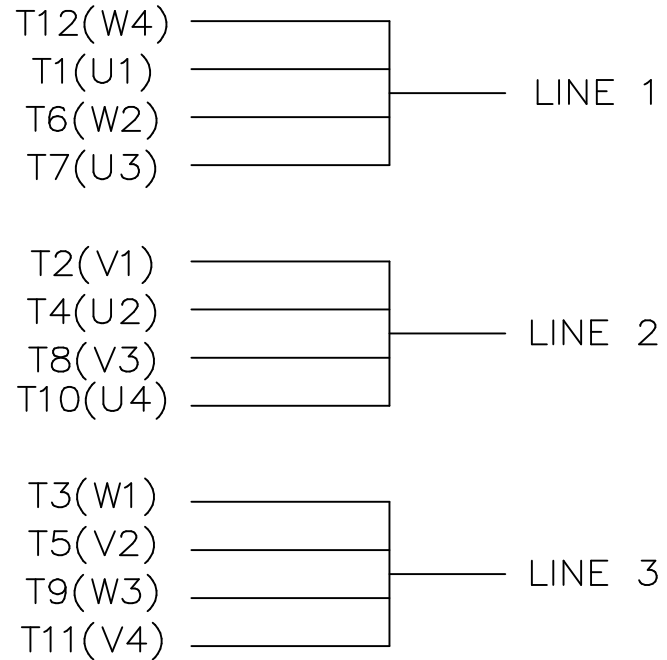
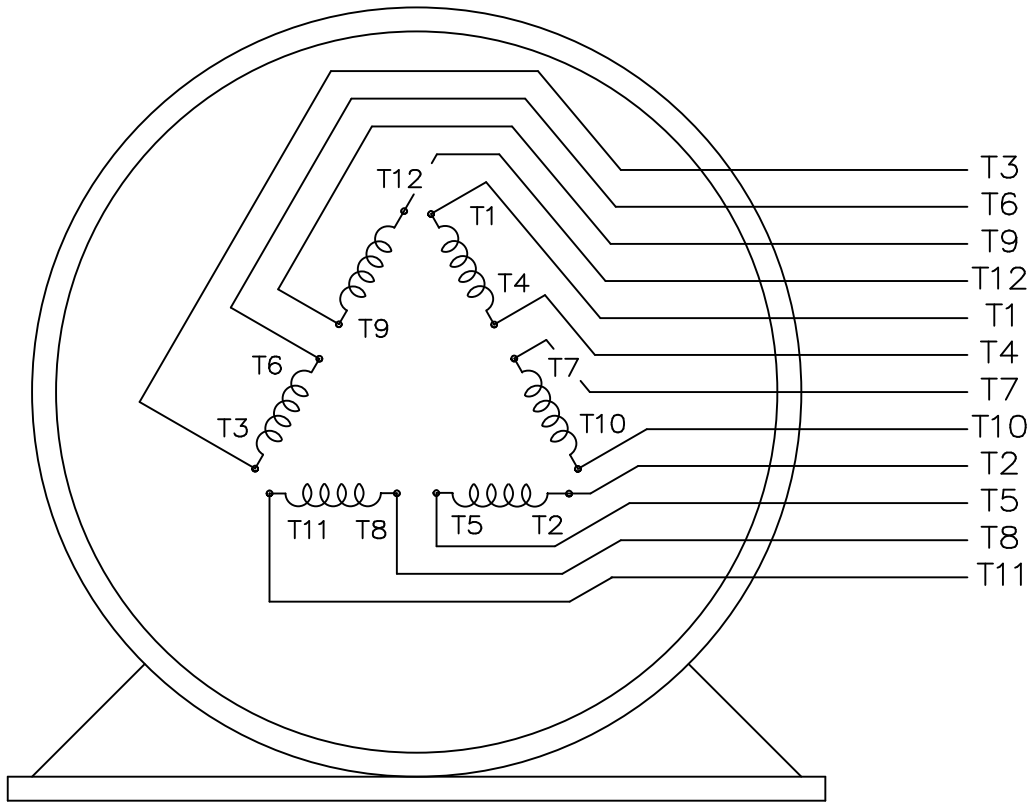
  

TOLERANCES UNLESS SPECIFIED		DRAWING NO		REV
DEC	INCHES	SS515635LN		4


  

THIRD ANGLE PROJECTION	SIZE	DRAWING NO	REV
	B	SS515635LN	4





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  
OUTLINE: B-SS515635LN-2875  
WINDING #: T4494207 1

CATALOG : LM80022

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
400&300	300&224	1800	1785&1486	447/449T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	448&410	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95.8&95.4	3/4 LOAD EFF:	95.8	1/2 LOAD EFF:	95.4	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	87&87	3/4 LOAD PF:	85	1/2 LOAD PF:	80	95.4		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1176 LB-FT	2850	2400 LB-FT 200 %	2850 LB-FT 240 %	85

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	145 LB-FT^2	3000 LB-FT^2	25 SEC.	-	3350 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
6319	6318						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/31/2018

LM80022



Data @ **460 V**

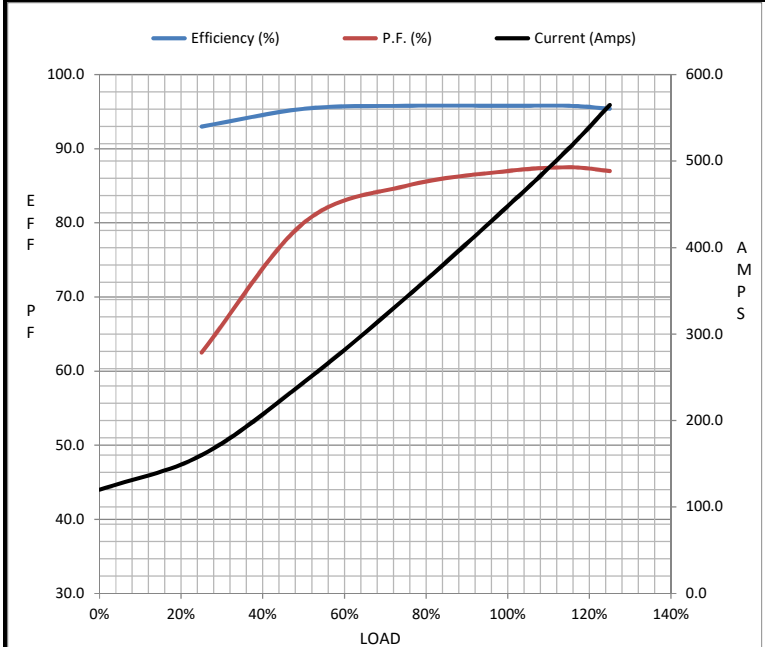
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	120	160	244	342	448	515	565	2,850
Torque (ft-lb)	0.00	293	586	880	1,176	1,355	1,475	2,400
RPM	1800	1795	1793	1790	1785	1,782	1780	0
Efficiency (%)		93.0	95.4	95.8	95.8	95.8	95.4	
P.F. (%)	4.0	62.5	80.0	85.0	87.0	87.5	87.0	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1785	1800
Current (Amps)	2,850	2,700	1,600	448	120
Torque (ft-lb)	2,400	2,150	2,850	1,176	0.00

Information Block				
HP	400.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	85 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	145 Lb-Ft <sup>2</sup>			
Ref Wdg	T4494207 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS515635LN-2875			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0060	0.0050	0.0560	0.0890	2.1840



Speed - Torque Curve

