

# PRODUCT INFORMATION PACKET



Model No: LM80182  
Catalog No: LM80182

Fire Pump Motor, 500 & 400 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 449TS Frame, DP



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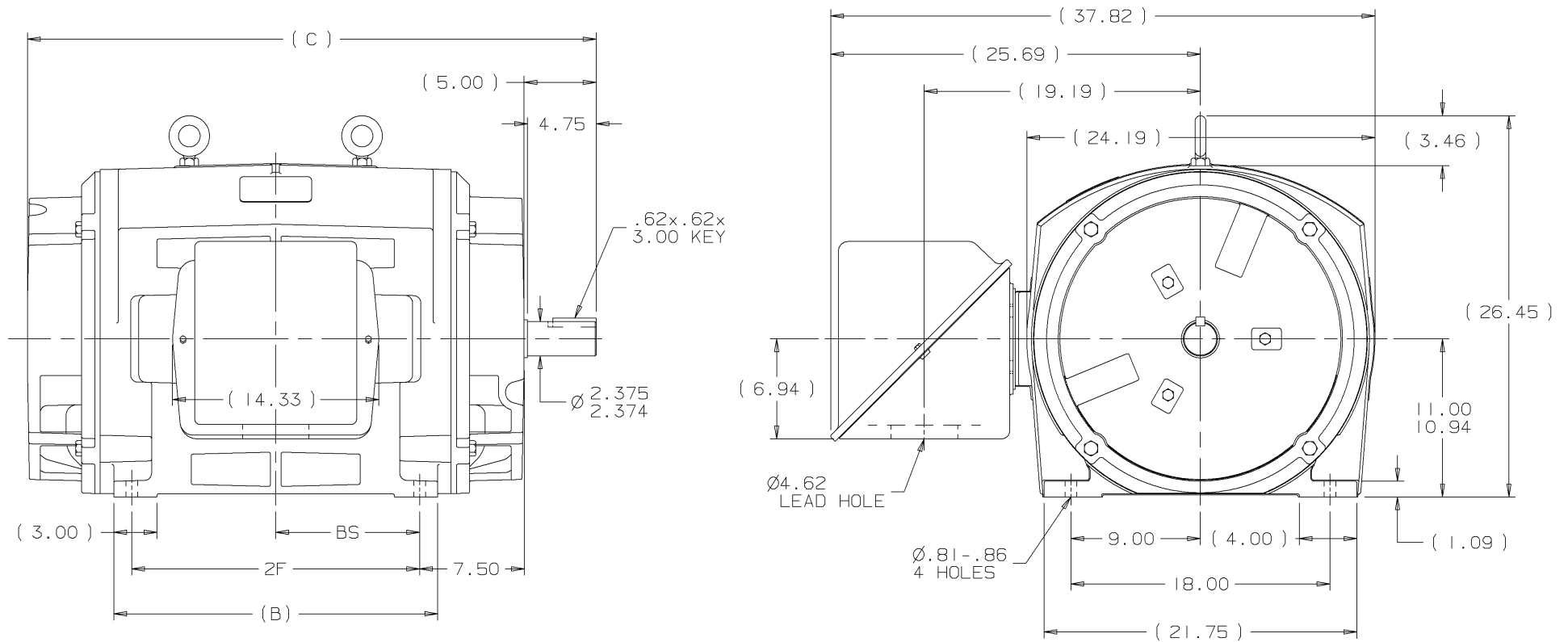


## Nameplate Specifications

Phase	3	Output HP	500 & 400 Hp
Output KW	370.0 & 300.0 kW	Voltage	460 & 380 V
Speed	1782 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	449TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	560 & 540 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
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	.00755 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	44.50 in
Frame Length	29.38 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-SS514570LN-2938



## 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. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

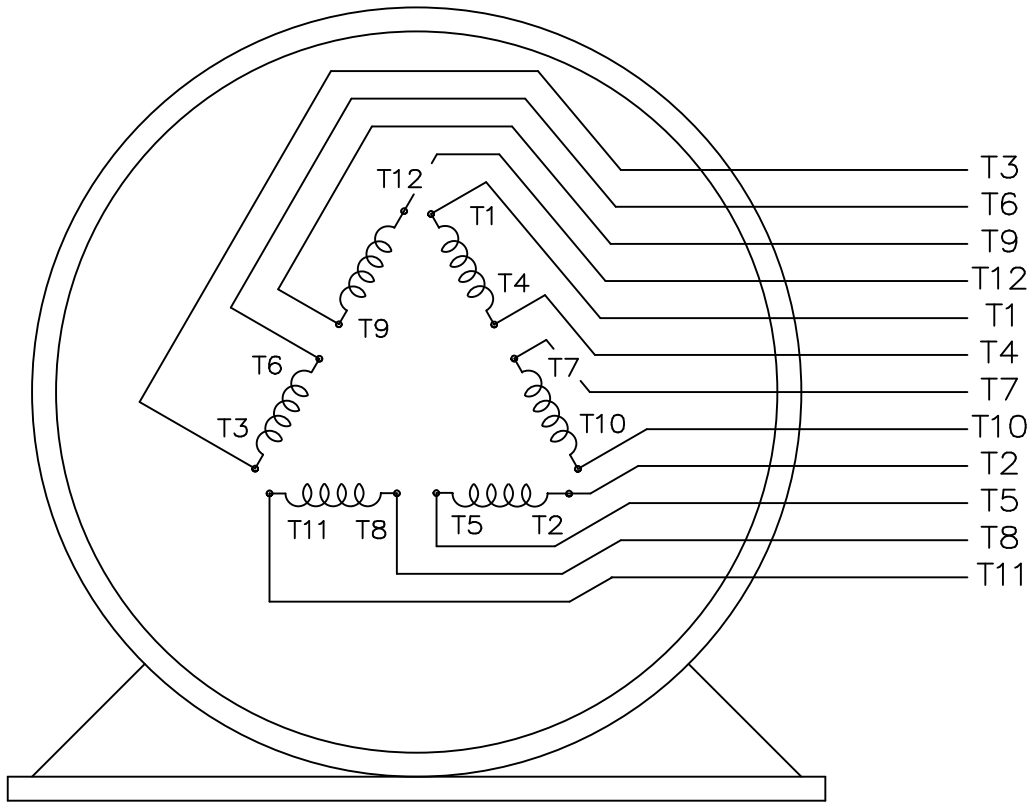
( B-SS514335 )

DASH	FRAME	B	C	2F	BS	REV	DATE	CHANGE	NAME	PART NAME	OUTLINE	DRWG NO
2438	447TS	22.50	39.50	20.00	10.00	I	05-16-2001	NEW DRAWING	MU37352	KL	447/9TS FR. - DR.PR.	B-SS514570LN
2938	449TS	27.50	44.50	25.00	12.50							

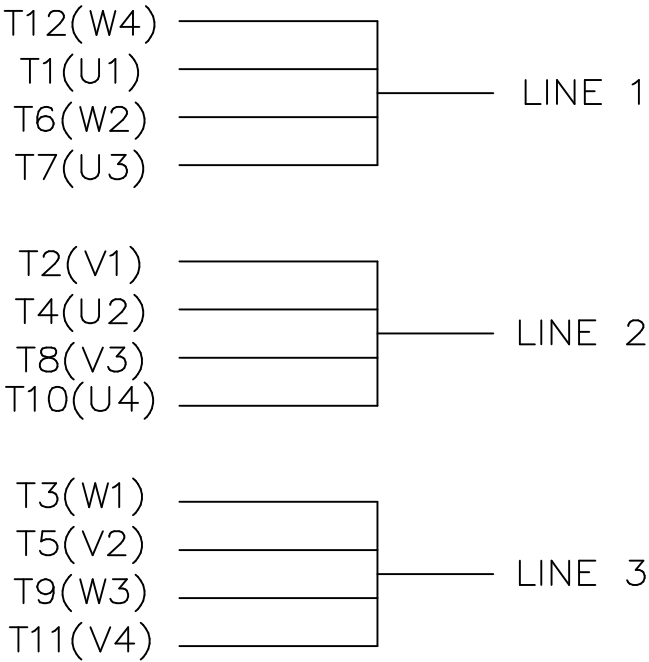



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.03 XXX±.005 XXXX±.0005 ANGLES± 7'30"			
MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY	KL
FINISH		CHKD BY	DJK
MATERIAL		APPD BY	JES

PURCHASED | L | DISTRIBUTION WA - LB - WP - LN - BY | CADD FILE NO. | SS514570LN



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	

## Data Sheet

Date: 1/30/2018

LM80182



Data @ 460 V

## Motor Load Data

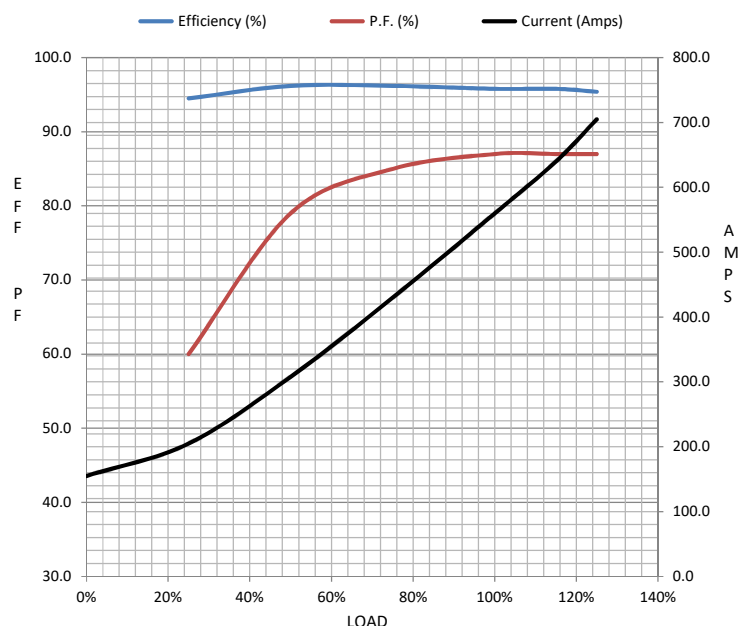
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	155	205	308	430	560	640	705	3,600	
Torque (ft-lb)	0.00	366	733	1,105	1,474	1,695	1,845	2,550	
RPM	1800	1795	1790	1785	1782	1,780	1775	0	
Efficiency (%)		94.5	96.2	96.2	95.8	95.8	95.4		
P.F. (%)	4.0	60.0	79.0	85.0	87.0	87.0	87.0	32.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1710	1782	1800
Current (Amps)	3,600	3,500	2,000	560	155
Torque (ft-lb)	2,550	2,250	3,500	1,474	0.00

## Information Block

HP	500.0			
Sync. RPM	1800			
Frame	449			
Enclosure	DP			
Construction	TDN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	89.0 Lb-Ft²			
Ref Wdg	T449439 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514570LN-2938			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0050	0.0040	0.0510	0.0630	1.6530



## Speed - Torque Curve

