

PRODUCT INFORMATION PACKET



Model No: LM80196

Catalog No: LM80196

Fire Pump Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445TS Frame, TEFC



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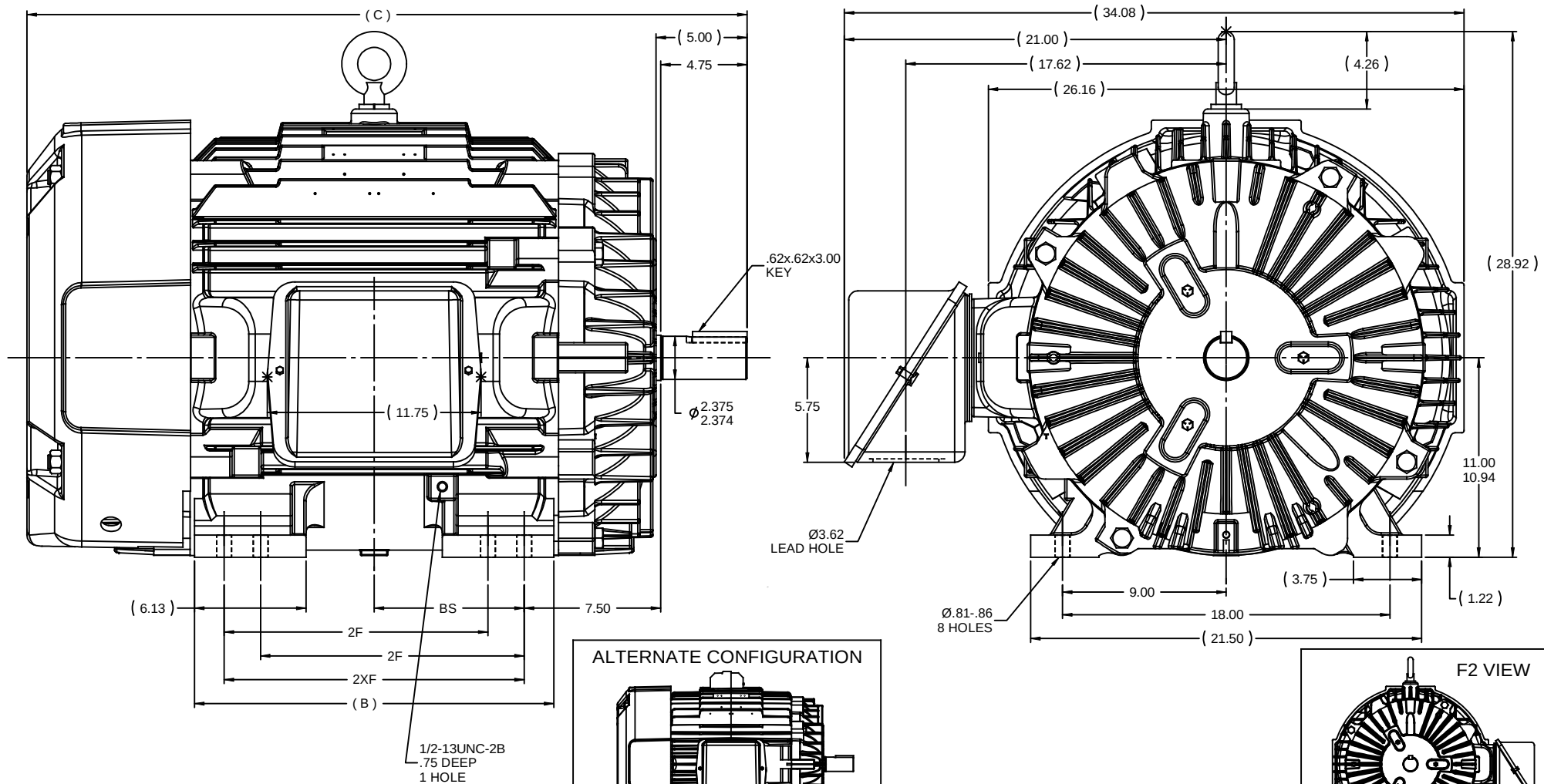


Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	170 & 172 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

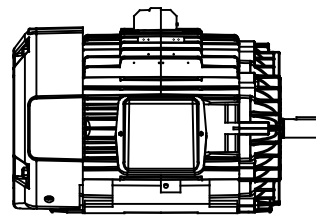
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.027 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	39.60 in
Frame Length	20.27 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514023LN-2025	Connection Drawing	A-EE7300BH-LN

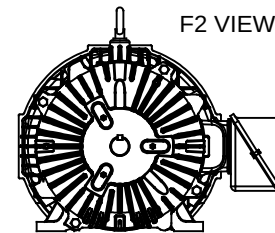


- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

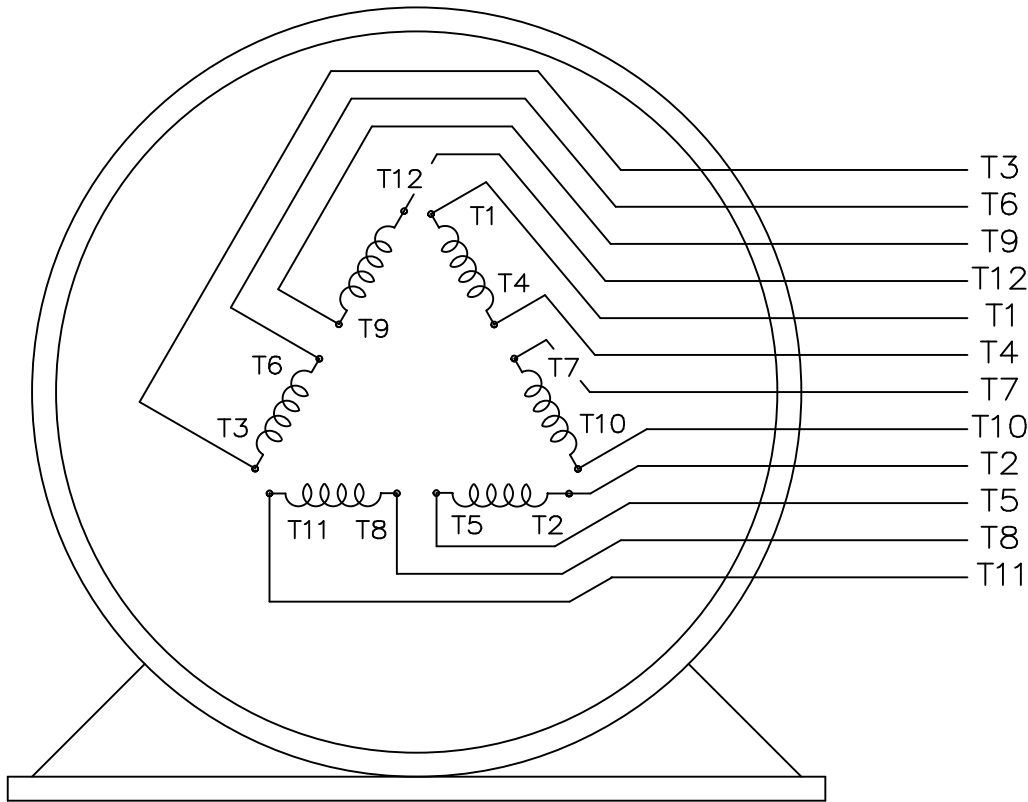
ALTERNATE CONFIGURATION



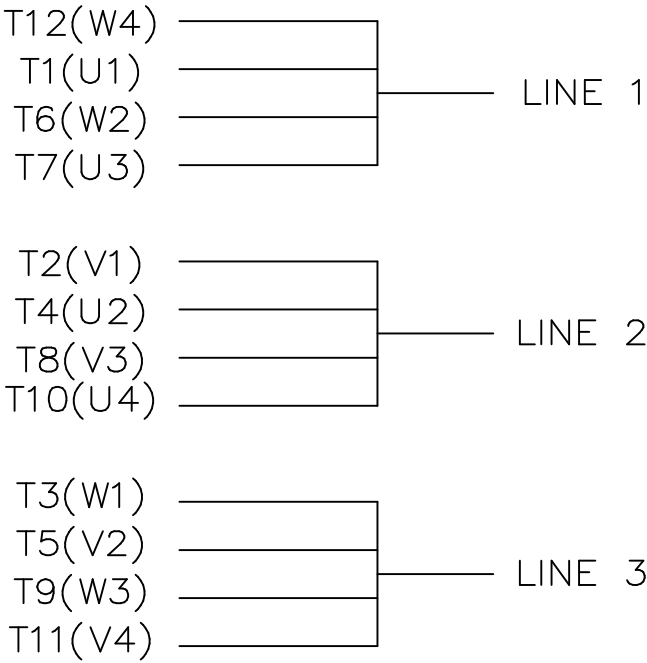
F2 VIEW



3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.														TOLERANCES UNLESS SPECIFIED				DRAWN KL 02-21-2002	
												DEC		INCHES				CHK DJK 02-21-2002	
3								UPDATED WITH NEW FRAME. 28.92 DIMENSION WAS 26.52.		JJB 12/16/2009		MH		XX		±.1		APPR JES 02-21-2002	
								ADDED RPEVIOUS CONFIG. & F2 VIEW PER ISAAC 09-5049		JJB 12/16/2009		MH		XX		±.03		TITLE OUTLINE	
2								CHG. FAN GUARD & REV. C-DIM. PER CN39335		RWR 01/22/2007		ML		XXX		±.005		444/445TS FR. - TEFC - STD.	
1								NEW DRAWING - MU40670		KL 02/22/2002				XXXX		±.0005		MATL	
NO								REVISION		BY & DATE		CHK		ANG		±1/2°		FINISH	
										RFP		02-21-2002		PREV				PAGE OF	
										NETWORK FILE NAME		SS514023 N		SIZE B		DRAWING NO SS514023 N		REV 3	
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							



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 05/24/2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD – SINGLE VOLTAGE				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 #: LM80196

OUTLINE: B-SS514023LN-2025

WINDING: T4454205

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	1800	1785	445TS	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	170&172	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	93.6	GTD EFF		ELECT. TYPE	
F.L. PF	86.5	3/4 LD PF	85.0	1/2 LD PF	78.0	94.1		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
441 LB-FT	1,075	650 LB-FT 147%	1,000 LB-FT 227%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA		51.0 LB-FT²	1000 LB-FT²	25 SEC.	2	2150 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
0.021	0.012	0.169	0.157	4.385	0.150	ODE

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

DATE: 9/4/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: NONE	

Data Sheet

Date: 9/4/2018

LM80196



Data @ 460 V

Motor Load Data

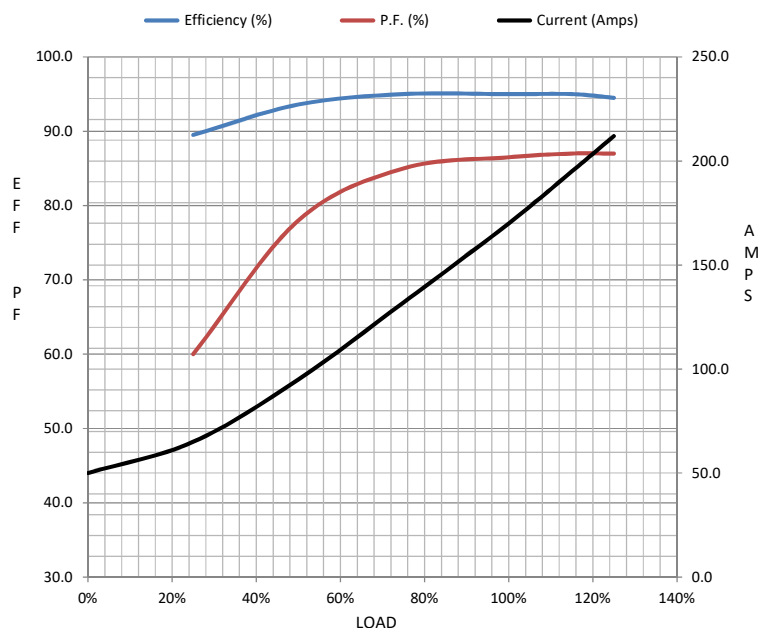
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	50.0	65.0	95.0	132	170	195	212	1,075	
Torque (ft-lb)	0.00	110	220	330	441	508	553	650	
RPM	1800	1795	1792	1788	1785	1,782	1780	0	
Efficiency (%)		89.5	93.6	95.0	95.0	95.0	94.5		
P.F. (%)	7.0	60.0	78.0	85.0	86.5	87.0	87.0	26.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,075	1,000	600	170	50.0
Torque (ft-lb)	650	550	1,000	441	0.00

Information Block

HP	150.0			
Sync. RPM	1800			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	51.0	Lb-Ft²		
Ref Wdg	T4454205	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	0.1690	0.1570	4.3850



Speed - Torque Curve

