

PRODUCT INFORMATION PACKET



Model No: LM80160
Catalog No: LM80160

Fire Pump Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS Frame, DP



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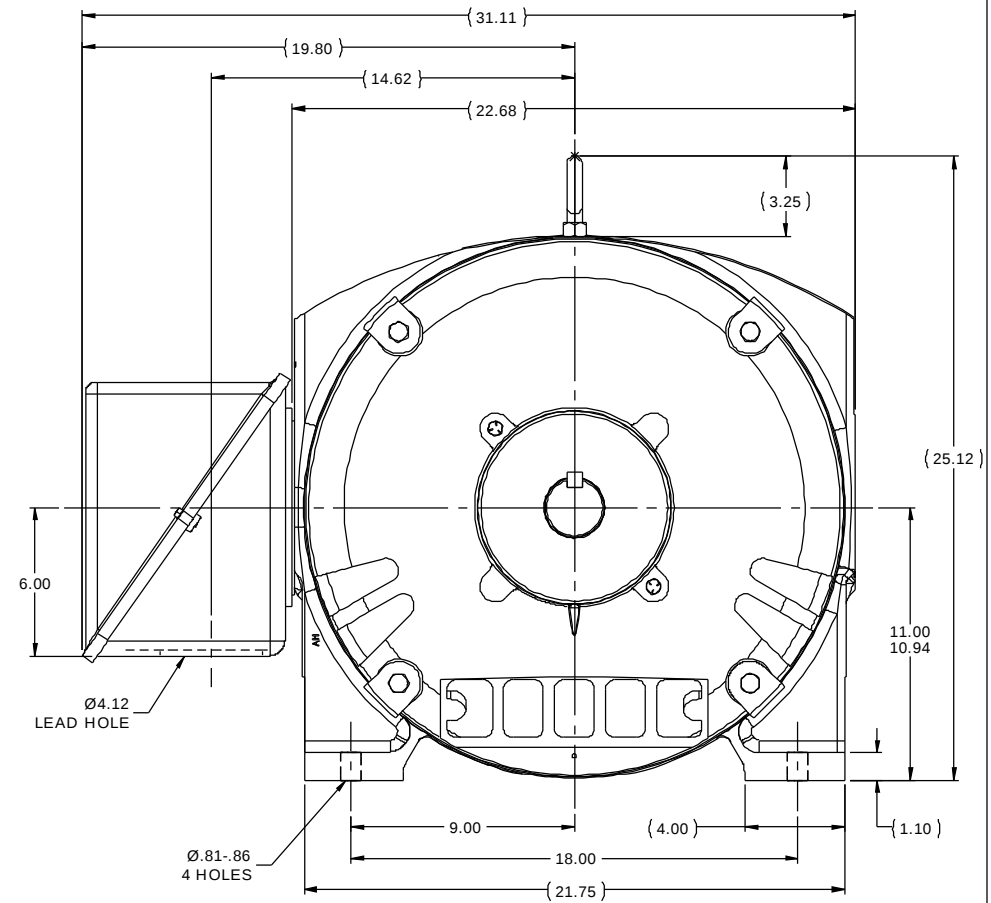
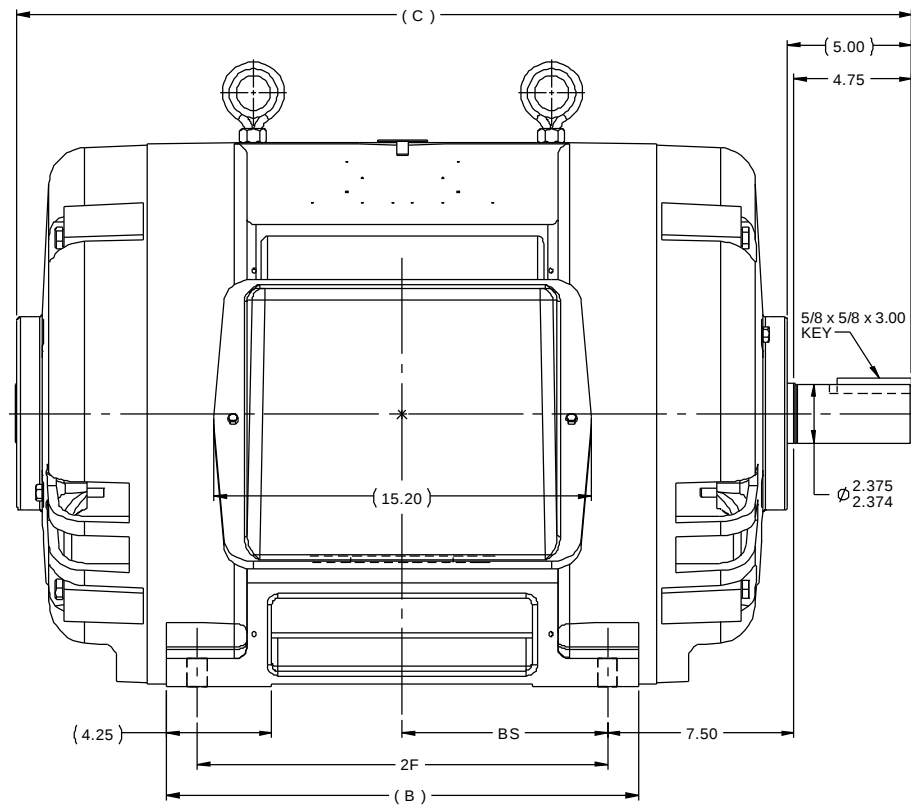


Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	3565 & 2965 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.5 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	279 & 270 A	Power Factor	88.5
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

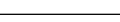
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.0198 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	36.00 in
Frame Length	20.50 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS509642LN-2050	Connection Drawing	A-EE7300BH-LN

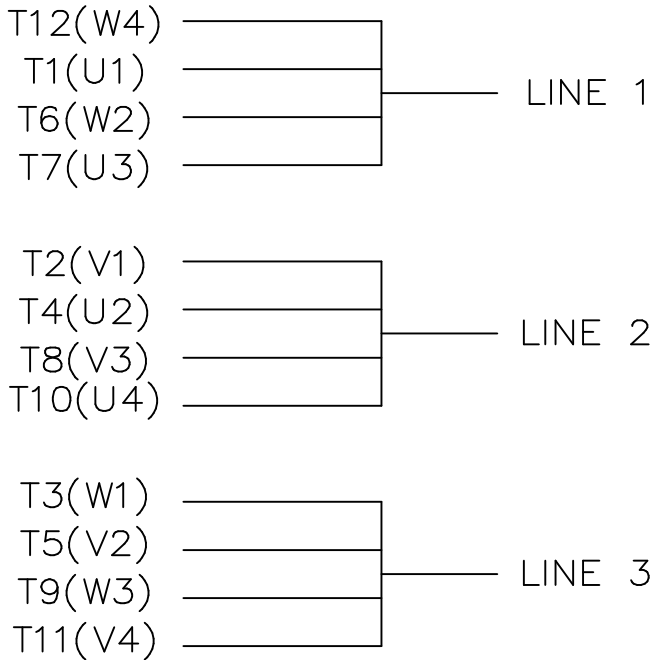
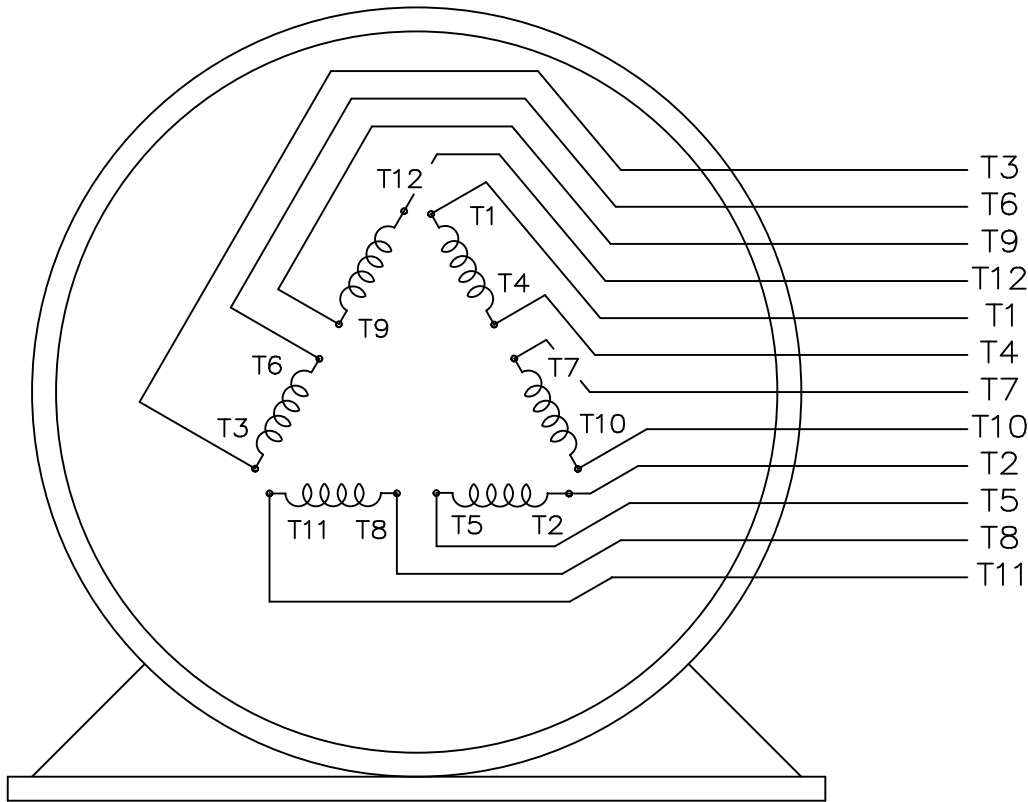


NOTES:

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.

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			DRAWN KL 07-31-2007	
					DEC	INCHES		CHK GFH 07-31-2003	
					X	±.1		APPR JES 07-31-2003	
					XX	±.03	TITLE OUTLINE 444/445TS FR. - DR. PR. STD.	SCALE 1:5	
2	UPDATED TO CURRENT STD'S. MU114528	JJB 08-01-2013	TDB	XXX	±.005			REF	
1	NEW DRAWING MU47677	KL 07-31-2007		XXXX	±.0005	MAT'L		FMF MU47677	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE	OF	
THIRD ANGLE PROJECTION					RFP 07-31-2003	PREV	SIZE B	DRAWING NO	REV
NETWORK FILE NAME SS509642LN					SS509642LN		2		



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



**2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN

CATALOG #: LM80160

OUTLINE: B-SS509642LN-2050

WINDING #: T445239 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250&200	187&149	3600	3565&2965	445TS	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	279&270	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	94.5&94.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	93.6	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	88.5&89	3/4 LOAD PF:	87.5	1/2 LOAD PF:	83	93.6		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	1700	575 LB-FT 156 %	900 LB-FT 245 %	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
84 dBA	94 dBA	31 LB-FT^2	80 LB-FT^2	10 SEC.	-	1400 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						
6313	6313	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

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

Data Sheet

Date: 1/24/2018

LM80160



Data @ 460 V

Motor Load Data

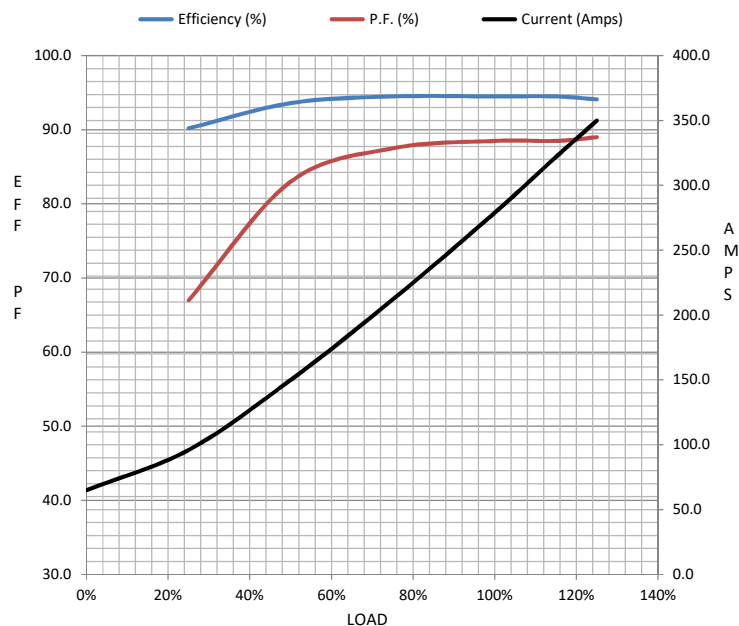
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	65.0	96.0	150	212	279	322	350	1,700	
Torque (ft-lb)	0.00	94.0	183	275	368	425	462	575	
RPM	3600	3590	3580	3572	3565	3,555	3550	0	
Efficiency (%)		90.2	93.6	94.5	94.5	94.5	94.1		
P.F. (%)	9.0	67.0	83.0	87.5	88.5	88.5	89.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	2200	3400	3565	3600
Current (Amps)	1,700	1,575	925	279	65.0
Torque (ft-lb)	575	475	900	368	0.00

Information Block

HP	250.0			
Sync. RPM	3600			
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	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	31.0 Lb-Ft²			
Ref Wdg	T445239 NONE			
Sound Pressure @ 1M	84 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	0.0090	0.1050	0.0940	3.9920



Speed - Torque Curve

