

PRODUCT INFORMATION PACKET



Model No: LM80158
Catalog No: LM80158

Fire Pump Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445T Frame, DP



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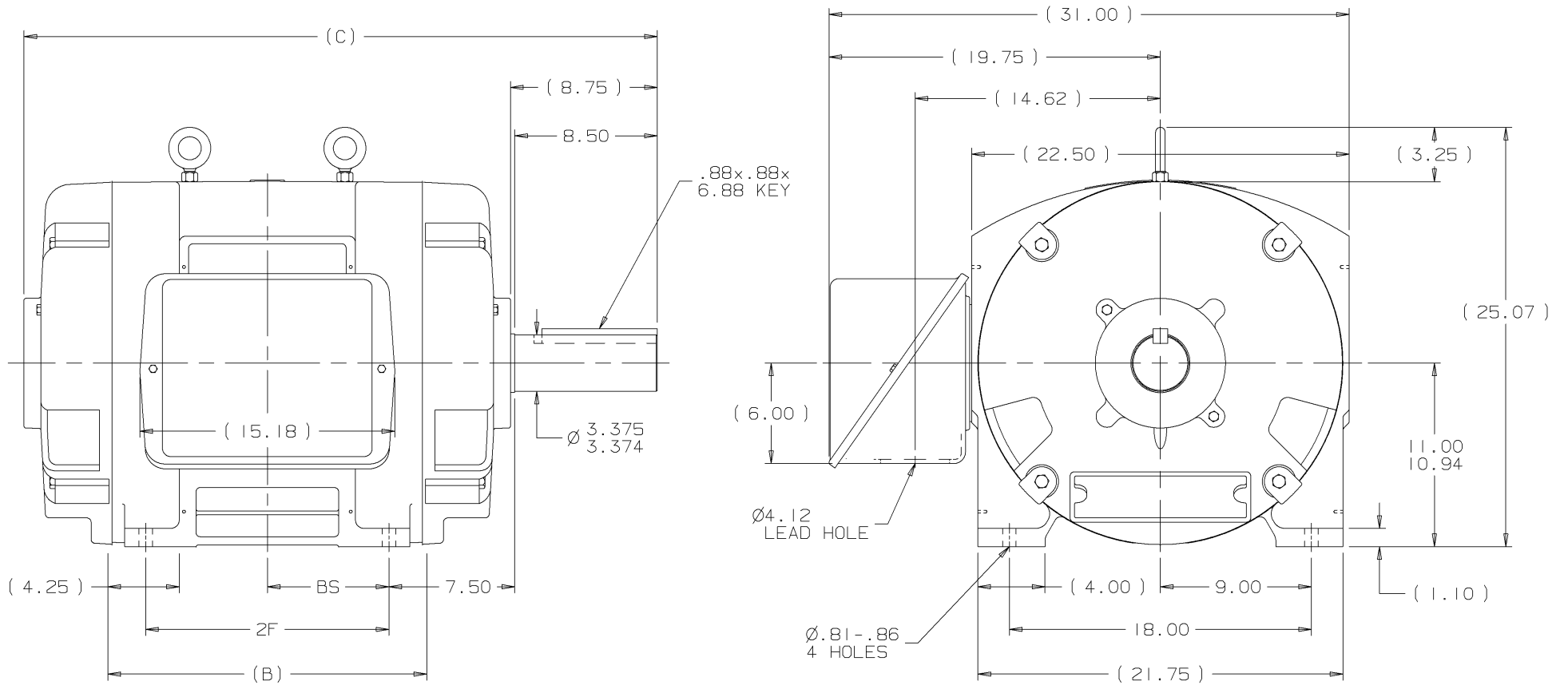


Nameplate Specifications


Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1780 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	445T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	233 & 212 A	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

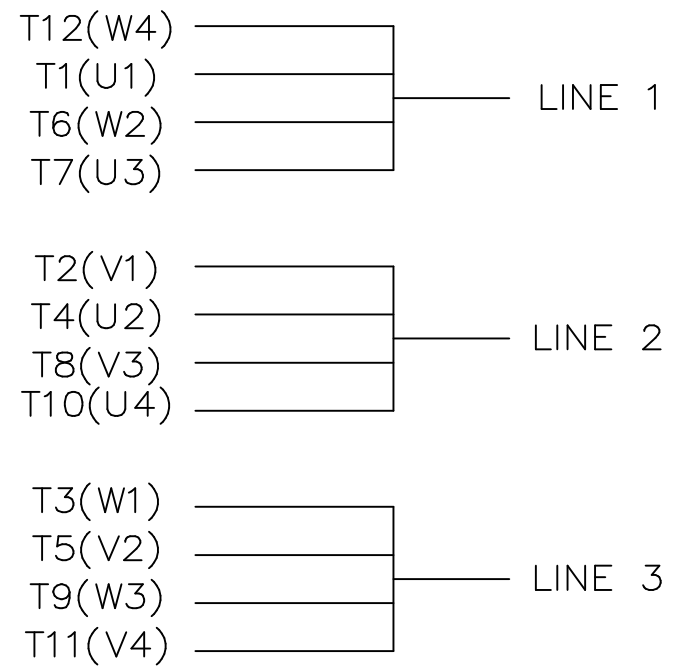
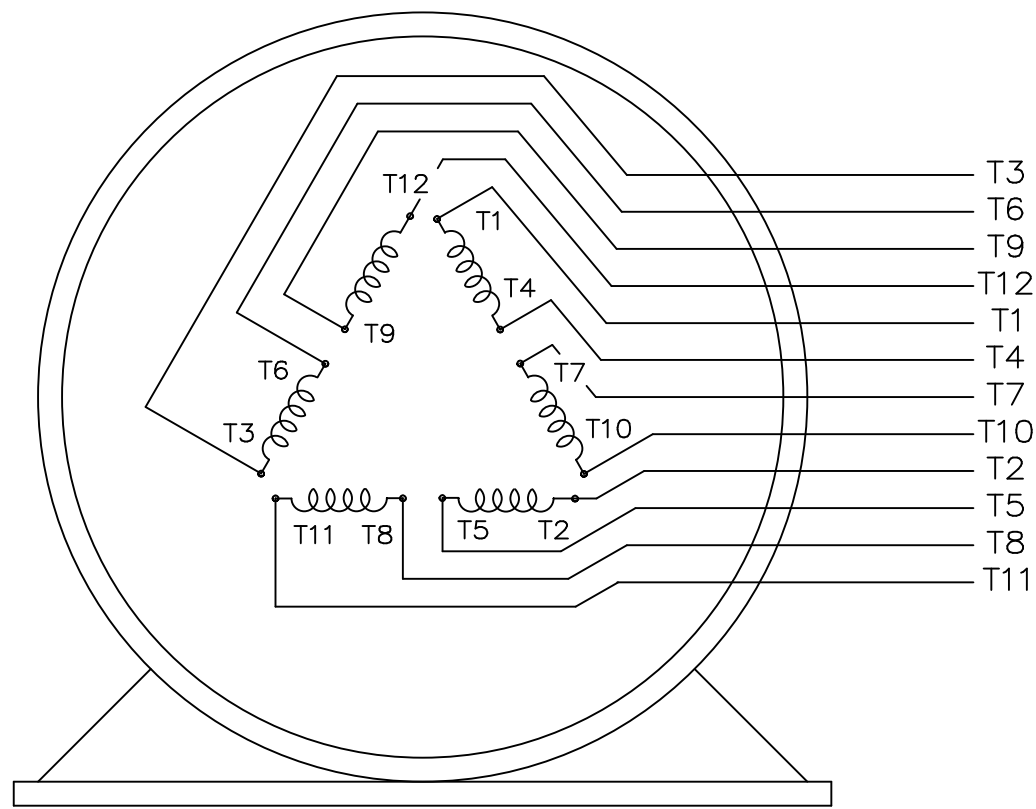
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.02 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	39.75 in
Frame Length	20.50 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS509449LN-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	TOLERANCES UNLESS SPECIFIED			DRAWN			
						DEC.	TOLERANCE		KML 11-30-2001			
						.X	±.1		CHK DJK 12-04-2001			
						.XX	±.03	TITLE OUTLINE	APPD JES 12-04-2001			
						.XXX	±.005	440T FR. - DR.PR.	SCALE			
						.XXXX	±.0005	MAT'L.	REF			
						NO.	REVISION	BY & DATE	FMF			
						CHK	ANG	±7'30"	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		PURCHASED	CAD FILE SS509449LN.GEN	SIZE	DRAWING NO.	REV.
						DIST WA - 06 - WA - 01 - BR - 01			B	SS509449LN		

DASH	FRAME	B	C	2F	BS
1850	444T	17.00	37.75	14.50	7.25
2050	445T	19.00	39.75	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	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		
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				DIST	WA-SB		A	EE7300BH-LN 2	2



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7300BH-LN

OUTLINE: B-SS509449LN-2050

WINDING #: T4454134 11

CATALOG # : LM80158

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1800	1780&1485	445T	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	233&212	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95&95	3/4 LOAD EFF:	95	1/2 LOAD EFF:	94.5	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	84.5&84	3/4 LOAD PF:	83	1/2 LOAD PF:	76	94.1		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
590 LB-FT	1375	1125 LB-FT 191 %	1375 LB-FT 233 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	43 LB-FT^2	850 LB-FT^2	20 SEC.	2	1350 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
6318	6316						

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: 1/18/2018

LM80158



Data @ 460 V

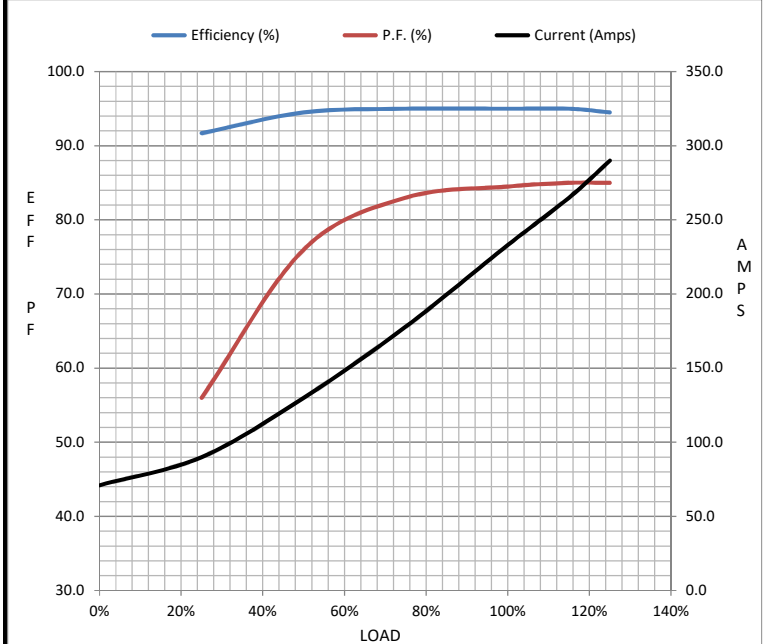
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	71.0	90.0	130	178	233	265	290	1,375
Torque (ft-lb)	0.00	146	293	441	590	680	740	1,125
RPM	1800	1795	1790	1785	1780	1,775	1772	0
Efficiency (%)		91.7	94.5	95.0	95.0	95.0	94.5	
P.F. (%)	5.0	56.0	76.0	83.0	84.5	85.0	85.0	33.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1780	1800
Current (Amps)	1,375	1,300	775	233	71.0
Torque (ft-lb)	1,125	1,050	1,375	590	0.00

Information Block				
HP	200.0			
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	43.0 Lb-Ft ²			
Ref Wdg	T4454134 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS509449LN-2050			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0130	0.1270	0.1650	3.5710



Speed - Torque Curve

