

PRODUCT INFORMATION PACKET



Model No: LM80204

Catalog No: LM80204

Fire Pump Motor, 350 & 300 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447/449TS Frame,
TEFC



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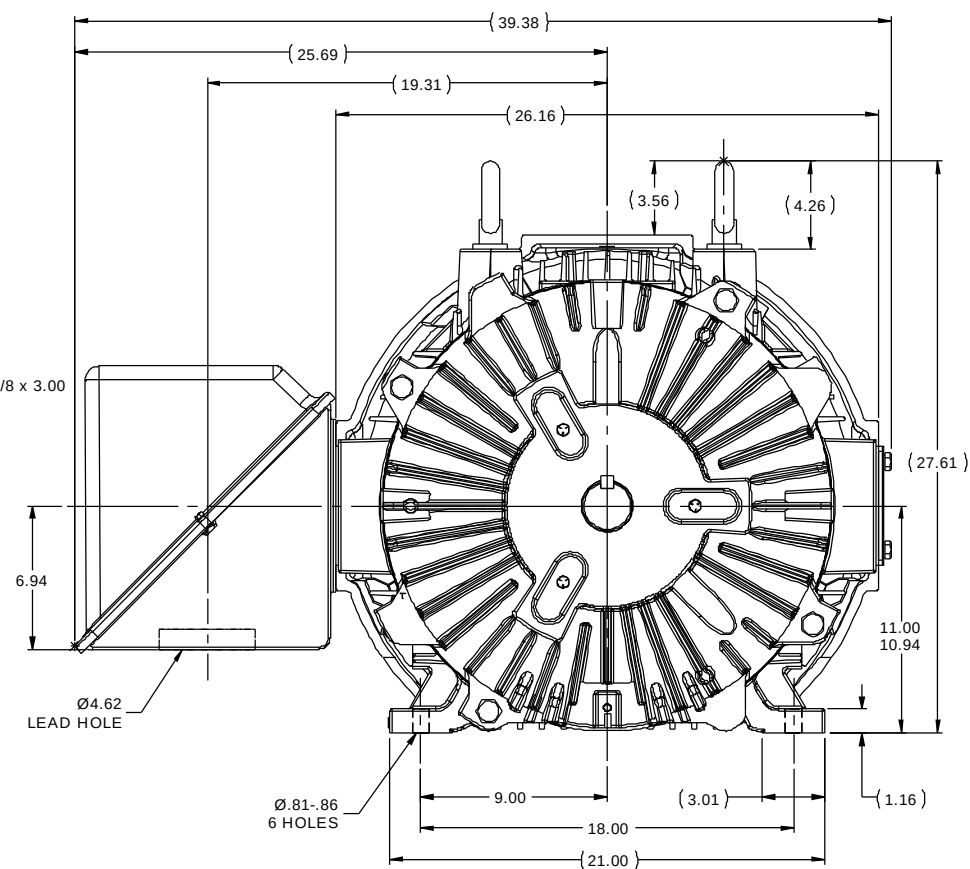
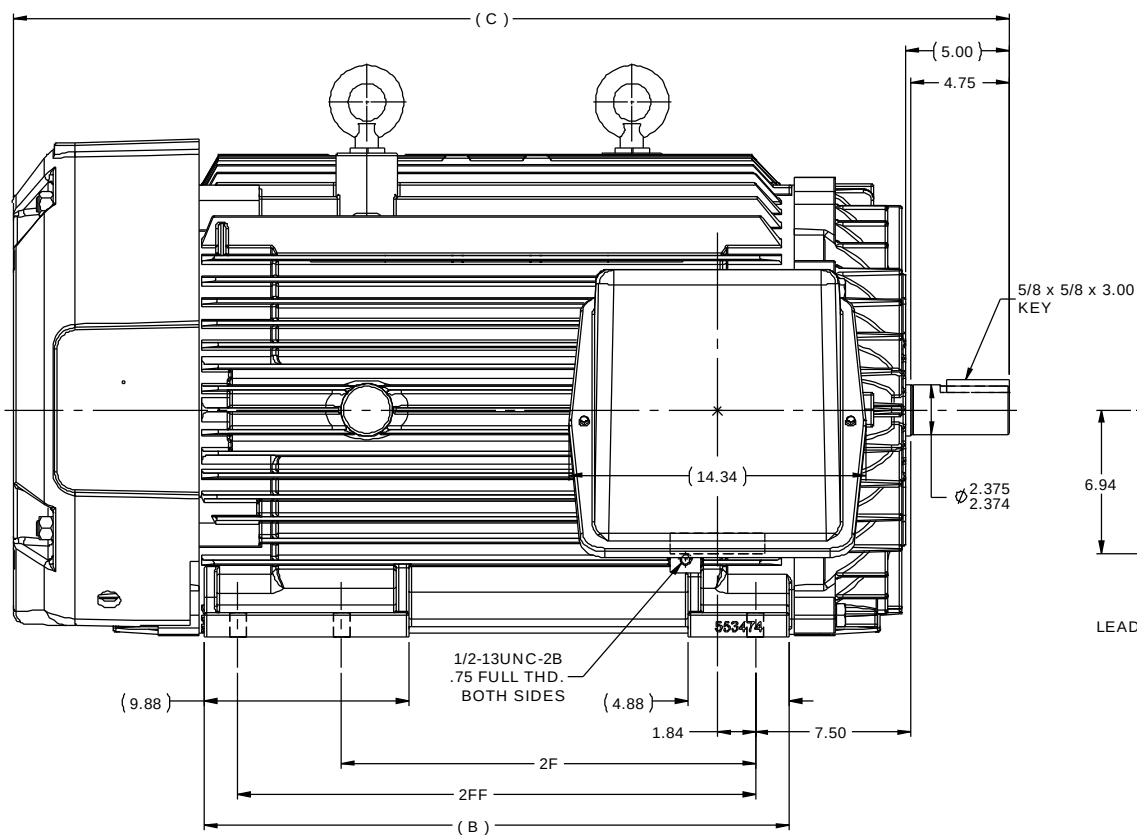


Nameplate Specifications

Phase	3	Output HP	350 & 300 Hp
Output KW	260.0 & 224.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.0
Frame	447/449TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	400 & 415 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

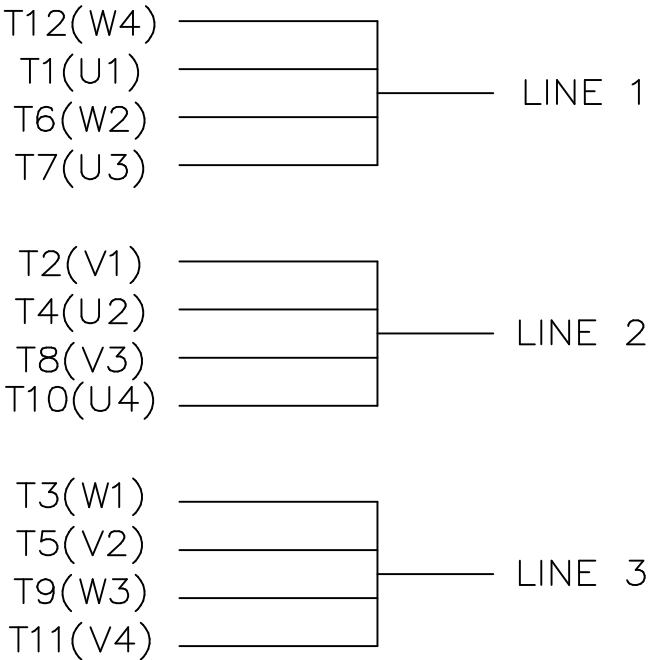
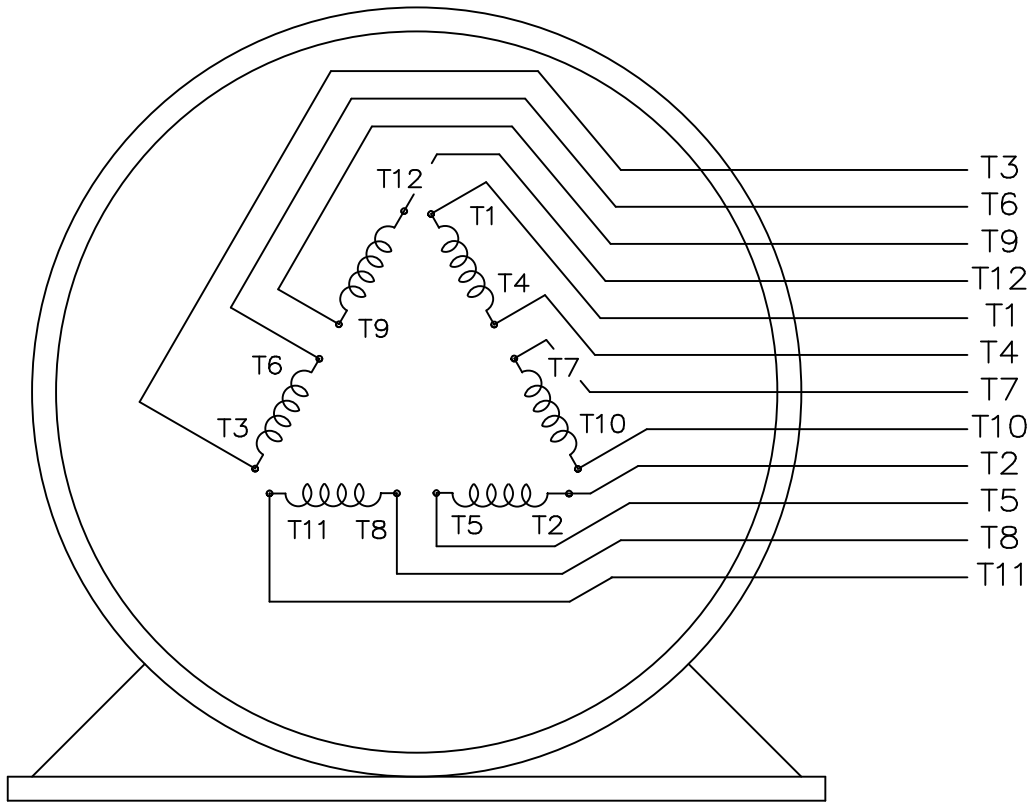
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.007 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	48.11 in
Frame Length	28.75 in	Shaft Diameter	2.375 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS515643LN-2875	Connection Drawing	A-EE7300BH-LN



NOTE:
1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

DASH	FRAME	B	C	2F	2FF
2875	447TS	28.25	48.11	20.00	- - -
2875	449TS	28.25	48.11	- - -	25.00

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTORS		DRAWN KL 06-13-2001	
		DEC	INCHES			CHK	DJK 06-13-2001
4	UPDATED TO MATCH REV. IN ORACLE	JJB	1/7/2013	X	±.1	APPR	JES 06-13-2001
3	UPDATED FRAME TO CURRENT STD'S ISAAC 09-5049	JJB	12/26/2012	MH	XX ±.03	SCALE	1:6
2	REVISED FAN GUARD GEOMETRY CN 39335	DRS	11/22/2006	XXX	±.005	REF	
1	NEW DRAWING MU37762	KL	6/14/2001	XXXX	±.0005	FMF	MU37762
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV
		THIRD ANGLE PROJECTION		RFP 06-13-2001		PREV	
				NETWORK FILE NAME SS515643LN		SIZE	DRAWING NO
						B	SS515643LN
							REV
							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 05/24/2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD – SINGLE VOLTAGE	REF			
1	NEW DRAWING MU41562	KL 04-12-02		.XXXX	±.0005		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"		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 A	DRAWING NO. EE7300BH-LN	PAGE OF	REV. 2
				DIST	WA-SB					



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7300BH-LN

OUTLINE: B-SS515643LN-2875

CATLOG # : LM80204

WINDING #: T449436 2

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
350&300	260&224	1800	1785&1485	447/449TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	400&415	PWS & YDRUN	CONTINUOUS	F1	1.15/1.0	40

FULL LOAD EFF:	95.4&95	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	94.5	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	86&86	3/4 LOAD PF:	83.5	1/2 LOAD PF:	77	94.5		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1030 LB-FT	2500	1975 LB-FT 192 %	2550 LB-FT 248 %	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	95 LB-FT^2	2225 LB-FT^2	25 SEC.	1	3050 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						
6318	6316	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: 1/18/2018

LM80204



Data @ 460 V

Motor Load Data

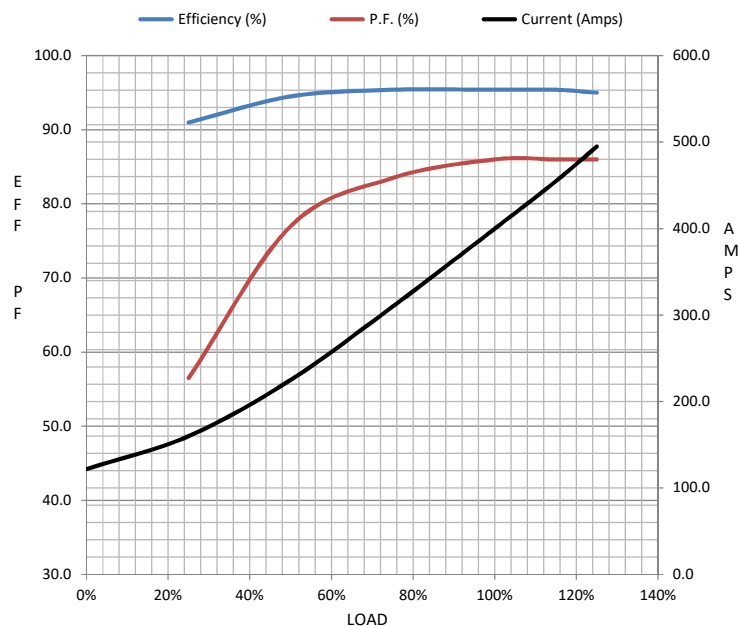
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	122	160	225	310	400	455	495	2,500	
Torque (ft-lb)	0.00	256	512	770	1,030	1,185	1,289	1,975	
RPM	1800	1795	1792	1790	1785	1,784	1782	0	
Efficiency (%)		91.0	94.5	95.4	95.4	95.4	95.0		
P.F. (%)	6.0	56.5	77.0	83.5	86.0	86.0	86.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1785	1800
Current (Amps)	2,500	2,450	1,650	400	122
Torque (ft-lb)	1,975	1,800	2,550	1,030	0.00

Information Block

HP	350.0			
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	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	95.0 Lb-Ft²			
Ref Wdg	T449436 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS515643LN-2875			
Conn. Diag	A-EE7300BH-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0050	0.0050	0.0650	0.0970	2.1570



Speed - Torque Curve

