

PRODUCT INFORMATION PACKET



Model No: LM80201
Catalog No: LM80201
300 HP, Fire Pump Motors, 3 phase, 1800 RPM, 400 V, 447/449TS Frame, TEFC
Fire Pump Motors



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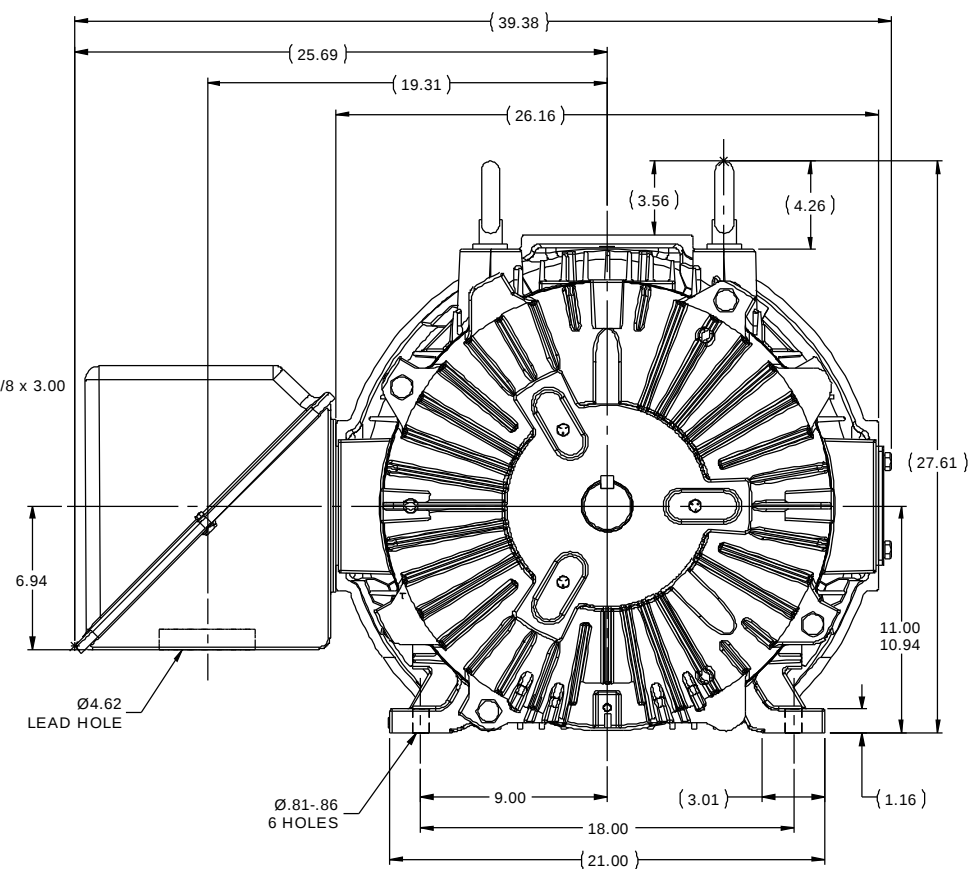
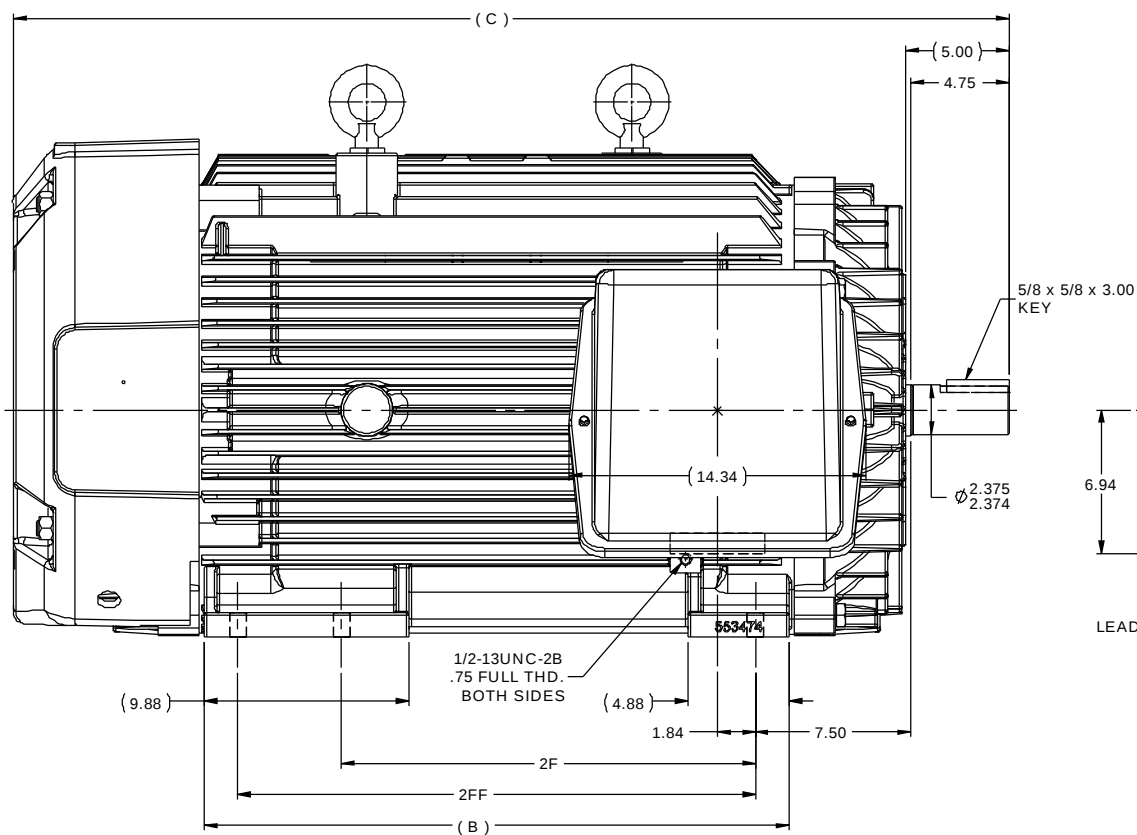
Nameplate Specifications

Output HP	300 Hp	Output KW	224.0 kW
Frequency	60 Hz	Voltage	400 V
Current	385.0 A	Speed	1788 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447/449TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
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	.0085 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	28.77 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-SS515643LN-2875

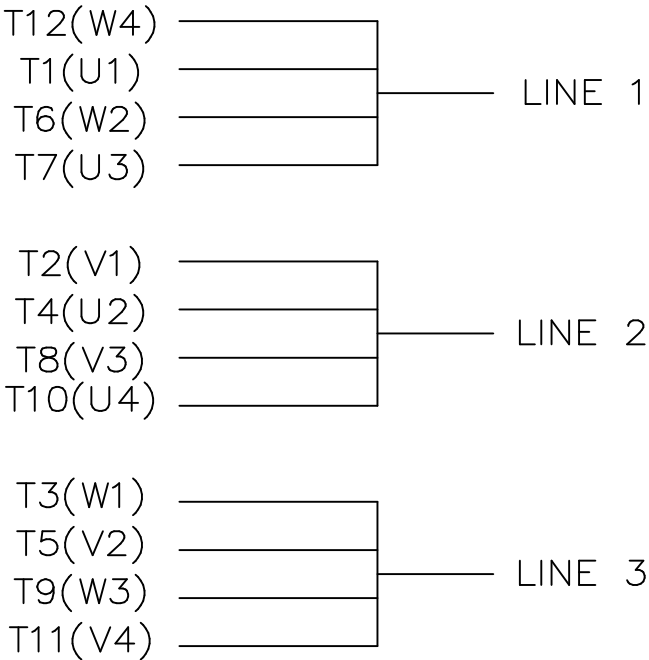
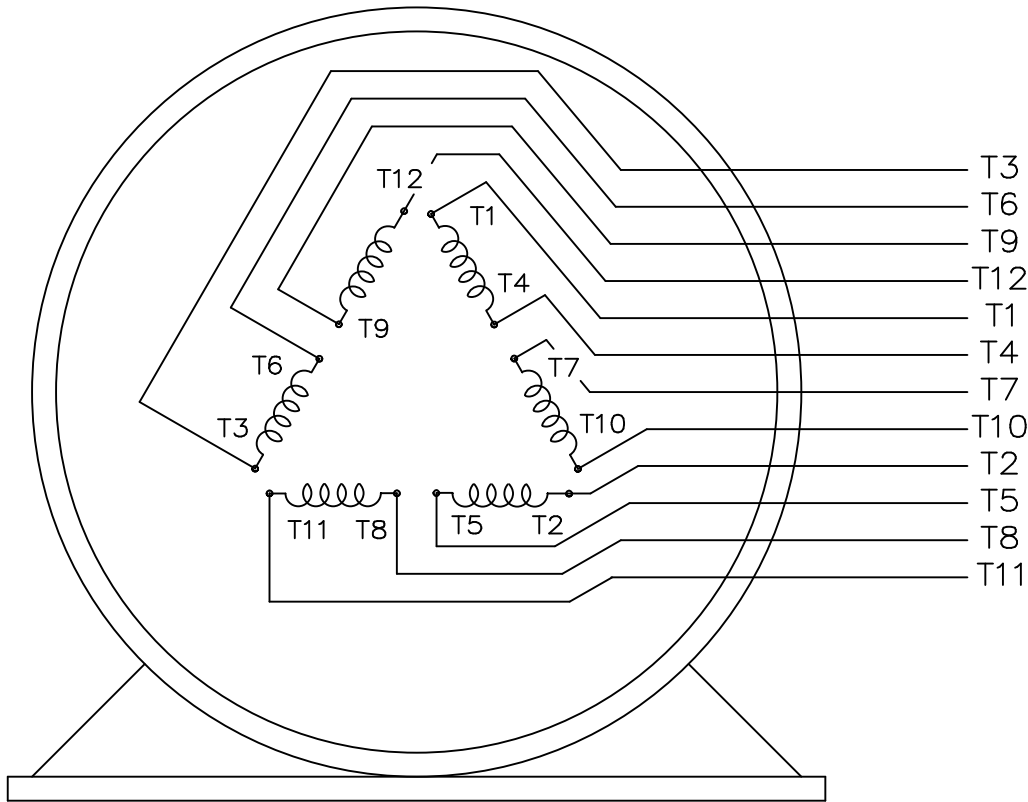
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NOTE:
1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

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	REV
		X	±.1			APPR JES 06-13-2001	
4	UPDATED TO MATCH REV. IN ORACLE	JJB	1/7/2013	X	±.1	TITLE OUTLINE - TEFC 447-449TS FR. - STD.	SCALE 1:6
3	UPDATED FRAME TO CURRENT STD'S ISAAC 09-5049	JJB	12/26/2012	MH	XX ±.03		
2	REVISED FAN GUARD GEOMETRY CN 39335	DRS	11/22/2006	XXX	±.005		
1	NEW DRAWING MU37762	KL	6/14/2001	XXXX	±.0005	MAT'L	REF
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	FMF MU37762
		THIRD ANGLE PROJECTION	RFP 06-13-2001		PREV	SIZE B	DRAWING NO SS515643LN
		NETWORK FILE NAME SS515643LN				PAGE OF	



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 05/24/2000	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



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH-LN

CAT #: LM80201

OUTLINE: B-SS515643LN-2875

WINDING: T4492107

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	3600	3570	447/449TS	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	400	374	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	ELECT. TYPE
F.L. PF	89.0	3/4 LD PF	88.0	1/2 LD PF	84.0	94.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
441 LB-FT	2,415	725 LB-FT 164%	1,100 LB-FT 249%	80

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
82 dBA	91 dBA		46.5 LB-FT²	195 LB-FT²	15 SEC.	1	2650 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	WATTSaver

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
0.006	0.005	0.067	0.059	2.626	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

LM80201



Data @ 400 V

Motor Load Data

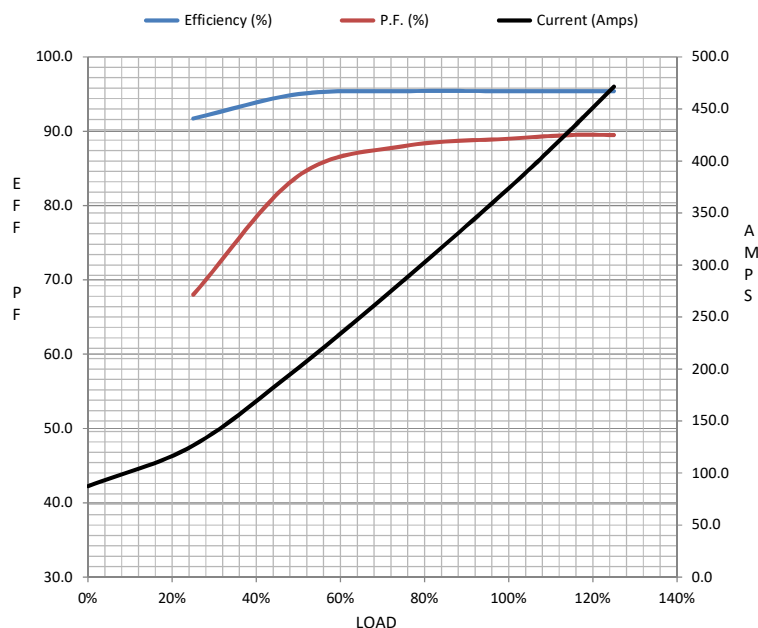
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	87.4	127	201	285	374	431	472	2,415	
Torque (ft-lb)	0.00	110	220	330	441	508	553	725	
RPM	3600	3592	3585	3578	3570	3,565	3562	0	
Efficiency (%)		91.7	95.0	95.4	95.4	95.4	95.4		
P.F. (%)	6.5	68.0	84.0	88.0	89.0	89.5	89.5	27.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3430	3570	3600
Current (Amps)	2,415	2,243	1,438	374	87.4
Torque (ft-lb)	725	640	1,100	441	0.00

Information Block

HP	300.0			
Sync. RPM	3600			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	400	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	46.5	Lb-Ft²		
Ref Wdg	T4492107	NONE		
Sound Pressure @ 1M	82	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
0.0060	0.0050	0.0670	0.0590	2.6260



Speed - Torque Curve

