## PRODUCT INFORMATION PACKET



Model No: LM80178 Catalog No: LM80178

Fire Pump Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447TS Frame, DP



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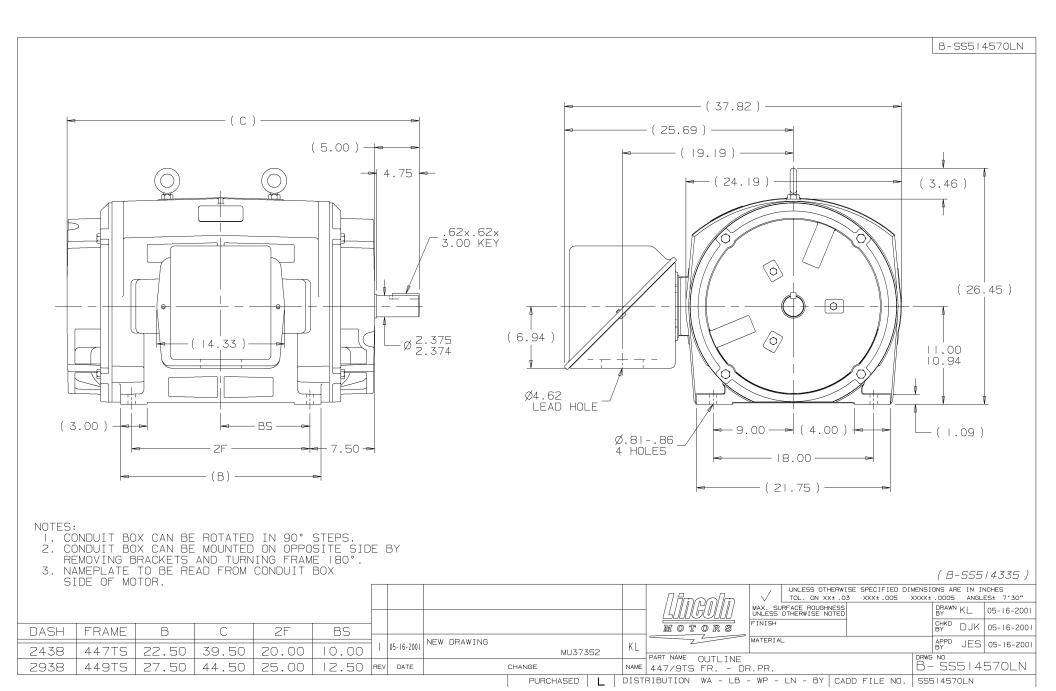
### Nameplate Specifications

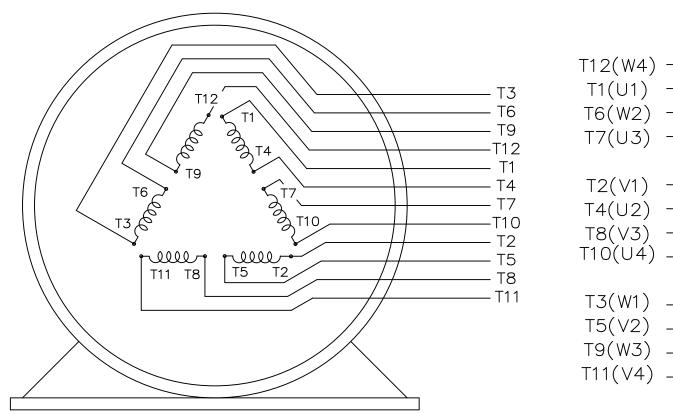
Phase	3	Output HP	400 & 350 Hp	
Output KW	300.0 & 260.0 kW	Voltage	460 & 380 V	
Speed	1782 & 1480 rpm	Service Factor	1.15 & 1.15	
Frame	447TS	Enclosure	Drip Proof	
Thermal Protection	No Protection	Efficiency	95.4 & 95 %	
Ambient Temperature	40 °C	Frequency	60 & 50 Hz	
Current	450 & 482 A	Power Factor	87	
Duty	Continuous	Insulation Class	F	
Design Code	В	KVA Code	F	
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314	
UL	No	CSA	Υ	
CE	Υ	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	.012 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	39.50 in
Frame Length	24.38 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514570LN-2438	Connection Drawing	A-EE7300BH-LN

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T12(W4) T1(U1) T6(W2) T7(U3)		LINE	1
T2(V1) T4(U2) T8(V3) T10(U4)		LINE	2
T3(W1) T5(V2) T9(W3) T11(V4)		LINE	3

VIEW OF TERMINAL END

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					DEC.	INCHES		<u>Lillufulli</u> motors			CHK DJ	K 04-24	4-2002
					.x	±.1		III O II O IK S			APPD EA	B 04-24	4-2002
					.xx	±.01	TITLE	CONNECTION DIAGRAM - E	XTEF	RNAL	SCALE	1=1	1
2	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 0	5/24/20	0171L	.xxx	±.005		12 LEAD — SINGLE VOL	TAG	Ξ	REF		
1	NEW DRAWING MU41562	KL 0	4-12-02		.xxxx	±.0005	MAT'L.				FMF		
NO.	REVISION	BY 8	& DATE	СНК	ANG	±1/2°	FINISH				PREV		
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	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION / THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE			DIST	WA-	·SB			Α	EE730	)0BH-	-LN	2
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#### **CERTIFICATION DATA SHEET**

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

CONN. DIAGRAM: A-EE7300BH-LN

**OUTLINE:** B-SS514570LN-2438

WINDING #: T447440 1 MOUNTING: F1/F2 CAPABLE

#### **TYPICAL MOTOR PERFORMANCE DATA**

CATALOG #: LM80178

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
400&350	300&260	1800	1782&1480	447TS	DP	F	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°С
3	60/50	460&380	450&482	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95.4&95	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	95.4	GTD, EFF	ELEC, TYPE
FULL LOAD PF:	87&87	3/4 LOAD PF:	85	1/2 LOAD PF:	79	95	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L	L.R. TORQUE		В	.D. TORQ	UE	F.L. RISE°C
1178 <b>LB-FT</b>	2650	1875	LB-FT	159 %	2550	LB-FT	216 %	70

	SOUND P	RESSURE FT.	SOUND	POWER	ROT	OR WK^2	MAX. WK^2 SAFE STALL TIME		STARTS / HOUR	АРРГ МОТОГ			
Ī	82	dBA	92	dBA	70	LB-FT^2	1550	LB-FT^2	15	SEC.	1	2250	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)

BEAR	RINGS	CDEACE	GREASE SHAFT TYPE SPECIAL DE SPECIAL ODE		SHAFT	FRAME	
DE	ODE	GREASE	SHAFI ITPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	DOLVDEY EM	TC	NONE	NONE	1045 HOT DOLLED (C 204)	CACT IDON
6314	6314	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

	THERMO-PROTE	CTORS		THERMISTORS	CONTROL	CDACE HEATEDS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE HEATERS	
NONE	NOT	NONE	NONE	NONE	FALSE	NONE <b>VOLTS</b>	

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

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