# PRODUCT INFORMATION PACKET



Model No: LM80098 Catalog No: LM80098

Fire Pump Motor, 150 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445T Frame, TEFC



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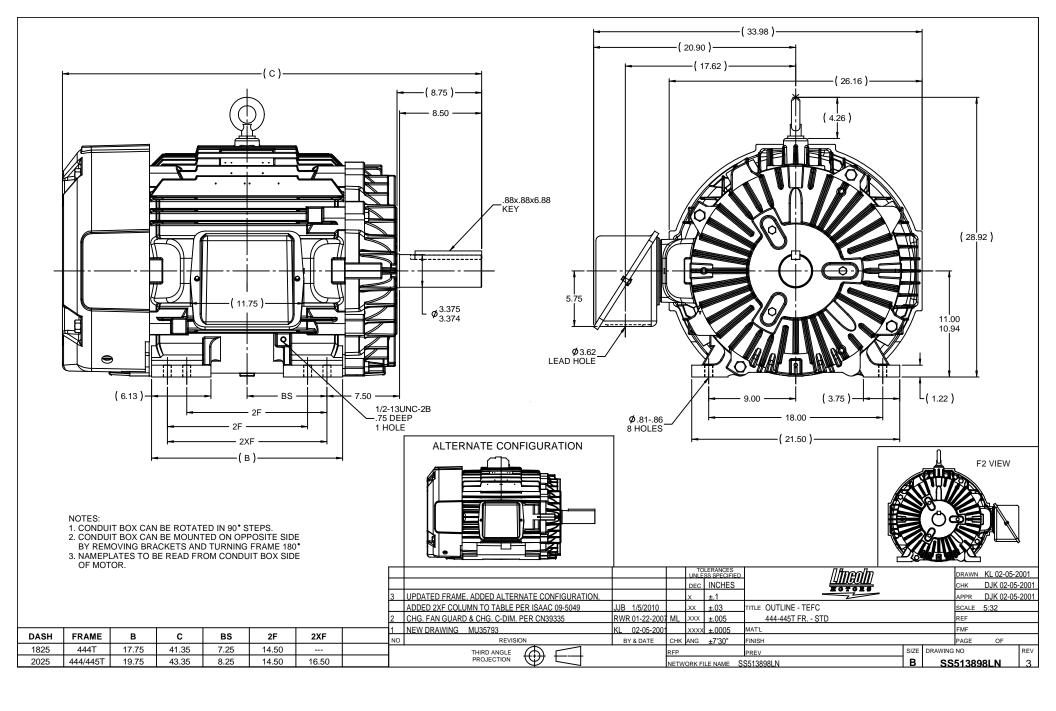
## Nameplate Specifications

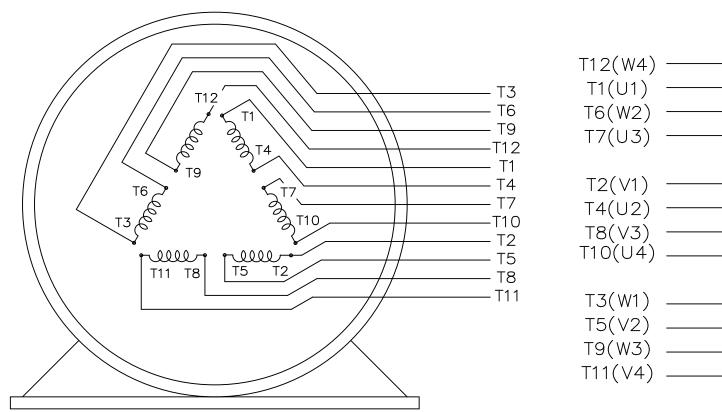
Phase	3	Output HP	150 & 100 Hp
Output KW	112.0 & 75.0 kW	Voltage	460 & 380 V
Speed	1785 & 1488 rpm	Service Factor	1.15 & 1.15
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	170 & 140 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	UL No		Υ
CE	Υ	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	.027 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	43.35 in
Frame Length	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300BH-LN	Outline Drawing	B-SS513898LN-2025

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VIEW OF TERMINAL END

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

				TOL UNLES	ERANCES S SPECIFIED		// <b>โ</b> กคา/โก			DRAWN KL 04-23-2002		-2002
				DEC.	INCHES		MOTORS			снк	DJK 04-24	-2002
				.x	±.1					APPD	EAB 04-24	-2002
				.xx	±.01	TITLE	CONNECTION DIAGRAM - E	XTER	NAL	SCALE	1=1	
2	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/20	0177L	.xxx	±.005		12 LEAD — SINGLE VOL	TAGE	<u>-</u> -	REF		
1	NEW DRAWING MU41562	KL 04-12-02		.xxxx	±.0005	MAT'L.				FMF		
NO.	REVISION	BY & DATE	снк	ANG	±1/2*	FINISH				PREV		
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT					CAD FILE	ee7300bh_ln	SIZE	DRAWING NO			REV.
IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT					-SB			A	EE730	00BH	H-LN	2



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

CONN. DIAGRAM: A-EE7300BH-LN

**OUTLINE:** B-SS513898LN-2025 CATALOG #: LM80098

WINDING #: T4454205 1 MOUNTING: F1/F2 CAPABLE

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

HP	kW	SYNC, RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&100	112&75.0	1800	1785&1488	445T	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	170&140	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95&94.5	3/4 LOAD EFF:	95	1/2 LOAD EFF:	93.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	86.5&85	3/4 LOAD PF:	85	1/2 LOAD PF:	78	94.1	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 <b>LB-FT</b>	1075	650 <b>LB-FT</b> 146 %	1000 <b>LB-FT</b> 226 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
80 dBA	90 <b>dBA</b>	51 <b>LB-FT^2</b>	1000 LB-FT^2	25 <b>SEC.</b>	2	2150 <b>LBS.</b>

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

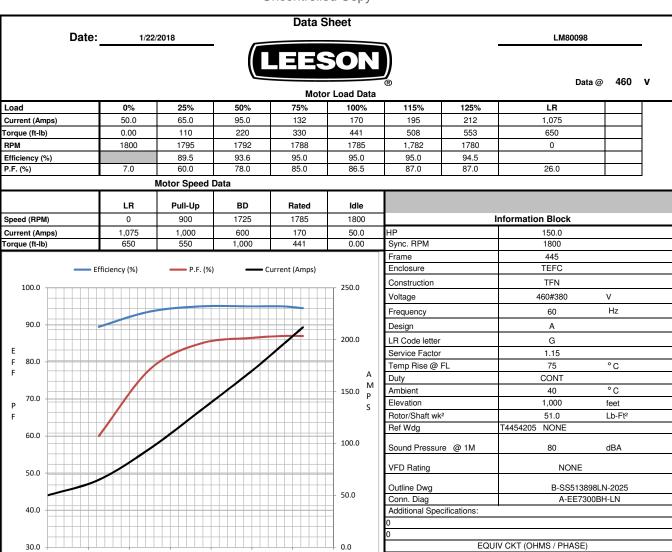
DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEAR	RINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFI ITPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	DOLVDEY EM	Ŧ	NONE	NONE	104F HOT DOLLED (C 204)	CACT IDON
6318	6316	POLYREX EM	ļ	NONE	NONE	1045 HOT ROLLED (C <b>-</b> 204)	CAST IRON

	THERMO-PROTECTORS				CONTROL	CDACE HEATERS	
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
N	ENCODER: NONE
o	NONE NONE PPR
Т	BRAKE: NONE NONE
E	NONE P/N NONE
	NONE NONE
S	NONE FT-LB NONE V NO BRAKE HZ

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# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401

and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: LM80098

(Model No. may contain prefix and/or suffix characters)

Catalog No: LM80098

Rework No: N/A

#### Directives:

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Authorized Representative in the Community:

J. cers

Michael A. Logsdon Vice President, Technology

Julian Clark Marketing Engineer

Created on 12/29/2022

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