# PRODUCT INFORMATION PACKET



Model No: LM21843 Catalog No: LM21843

Automotive Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 254UC Frame, TEFC



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## Nameplate Specifications

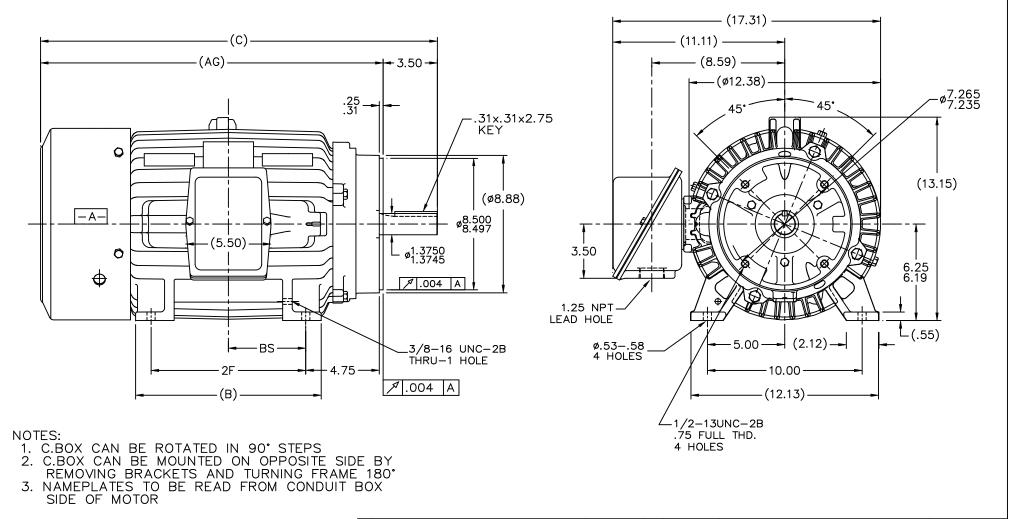
7.50 Hp	Output KW	5.6 kW
60 Hz	Voltage	460 V
9.6 A	Speed	1770 rpm
1	Phase	3
91.7 %	Power Factor	80
Continuous	Insulation Class	F
В	KVA Code	Н
254UC	Enclosure	Totally Enclosed Fan Cooled
No Protection	Ambient Temperature	65 °C
309	Opp Drive End Bearing Size	207
No	CSA	Υ
Υ	IP Code	43
1		
	60 Hz 9.6 A 1 91.7 % Continuous B 254UC No Protection 309 No	9.6 A Speed  1 Phase 91.7 % Power Factor  Continuous Insulation Class  B KVA Code  254UC Enclosure  No Protection Ambient Temperature  309 Opp Drive End Bearing Size  No CSA

## **Technical Specifications**

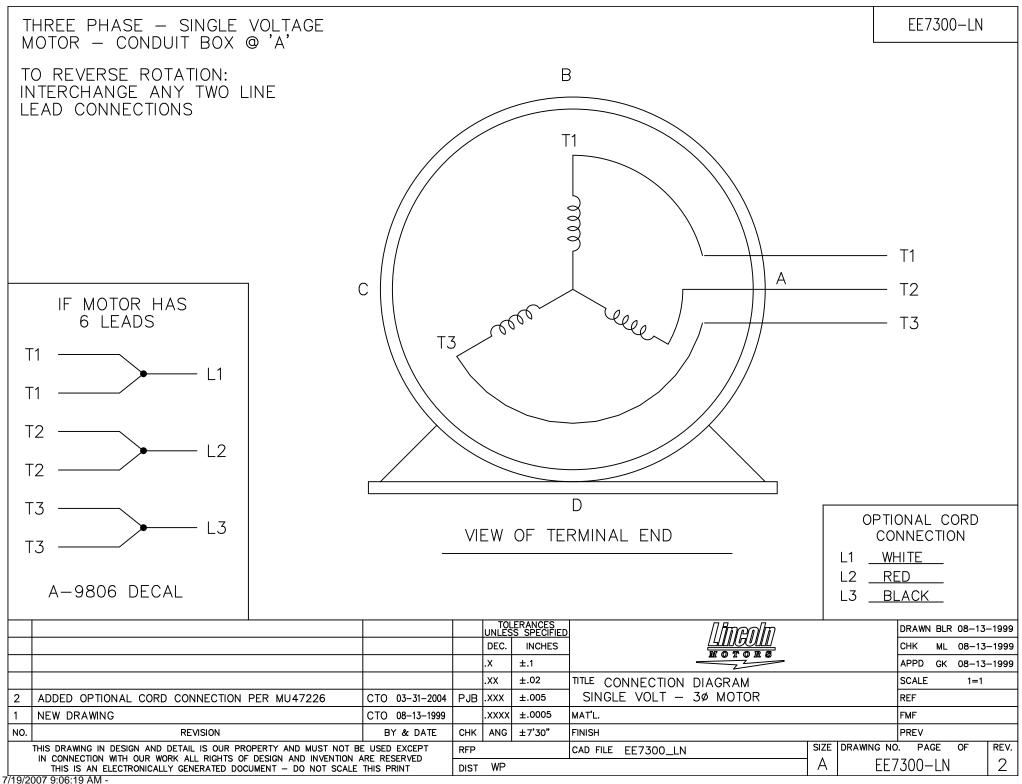
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.17 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	U	Overall Length	23.89 in
Frame Length	11.75 in	Shaft Diameter	1.375 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS203586LN-1175	Connection Drawing	A-EE7300-LN

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												UNLES	ERANCES S SPECIFIED	<u> [Incoln]</u>	DRAWN	BJW 8/22/00
												DEC.	INCHES	<u> </u>	СНК	ML 8/23/00
												.x	±.1	WOTORS	APPD	TB 8/23/00
							3	CHANGED TO LINCOLN TITLE BLOCK	JMS	02/07/2005		.xx	±.03	TITLE OUTLINE - TEFC -250U FR.	SCALE	1=4
DASH	FRAME	D		25	BS	AG	2	CHG,. KEY LENGTH F-2.50 T-2.75 CN29100-4187	RW	₹ 08-09-2004	ML	.xxx	±.005	-BB -TS -STDC'FACE CAST C. BOX	REF	
DASH	FRAME	Ь	<u> </u>	<u> </u>	63	AG	1	NEW DRAWING MU32889	BJV	/ 08-23-2000	ML	.xxxx	±.0005	MAT'L.	FMF	
1175	254U	10.25	23.89	8.25	4.12	20.39	NO.	REVISION		BY & DATE	СНК	ANG	±7"30"	FINISH	PREV	
							П	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE			RFP			CAD FILE ss203586in SIZE DRAWING NO	D. PAG	1 OF 1 REV.
1350	256U	12.00	25.64	10.00	5.00	22.14		IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A			DIST	LB		B SS20	0358	6LN   3



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

**CONN. DIAGRAM:** A-EE7300-LN **OUTLINE:** B-SS203586LN-1175 **WINDING #:** K2134158 R12 7

CATALOG: LM21843

**MOUNTING:** F1/F2 CAPABLE

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

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1800	1770	254UC	TEFC	Н	В

	PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
Γ	3	60	460	9.6	ACROSS THE LINE	CONTINUOUS	F3	1.0	65

FULL LOAD EFF:	91.7	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	80	3/4 LOAD PF:	74	1/2 LOAD PF:	63	90.2	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22 <b>.</b> 3 <b>LB-FT</b>	63.5	52 <b>LB-FT</b> 233 %	72 <b>LB-FT</b> 323 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 <b>dBA</b>	72 <b>dBA</b>	0.85 LB-FT^2	75 <b>LB-FT^2</b>	25 <b>SEC.</b>	2	225 <b>LBS.</b>

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SDECTAL DE	CDECTAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFITYPE	/PE SPECIAL DE SPECIAL ODE		MATERIAL	MATERIAL
BALL	BALL	DOLVDEY EM		NONE	NONE	1045 HOT BOLLED (C 204)	CAST IDON
309	207	POLYREX EM	U	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

	THERMO-PROTE	THERMISTORS	CONTROL	CDACE HEATERS			
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	IHERMISTORS	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

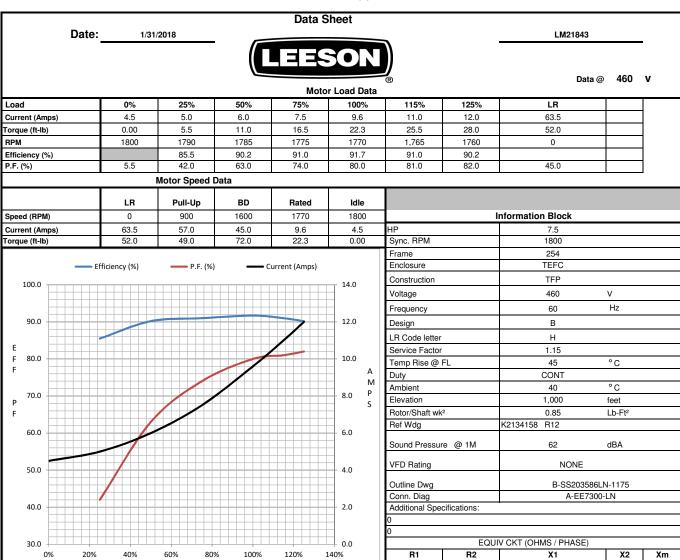
NONE FT-LB NONE V NONE HZ

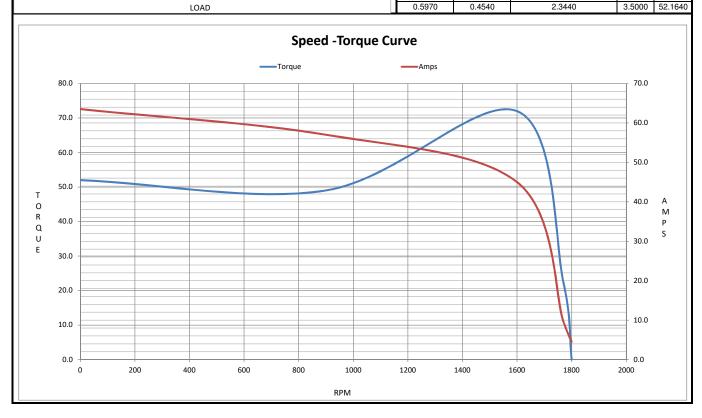
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# **EC Declaration of Conformity**

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: LM21843

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

Catalog No: LM21843

Rework No: N/A

### **Directives:**

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

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

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

Authorized Representative:

Michael A Logodon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer

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