PRODUCT INFORMATION PACKET



Model No: LM21846 Catalog No: LM21846

Automotive Duty Motor, 10 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 256UC Frame, TEFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

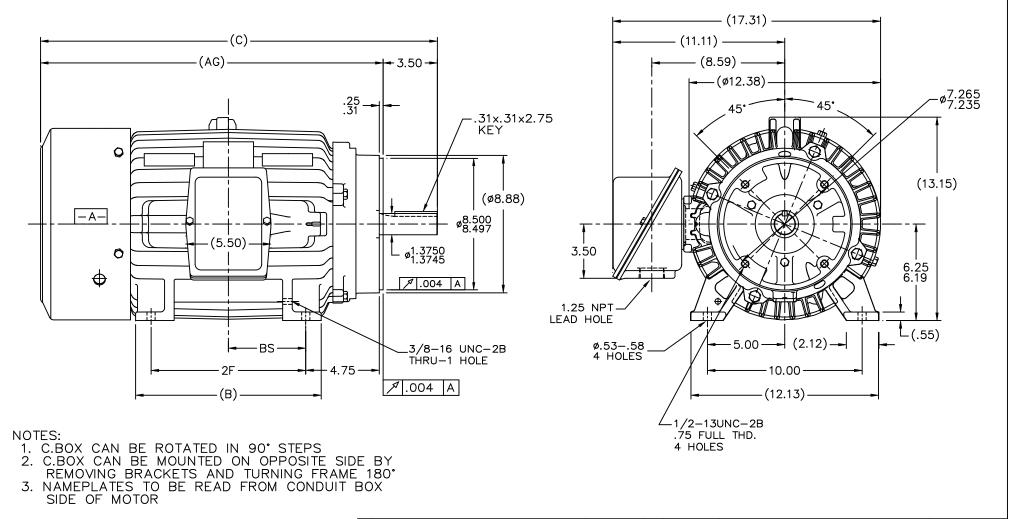
Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	460 V
Current	12.5 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	256UC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	207
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

Technical Specifications

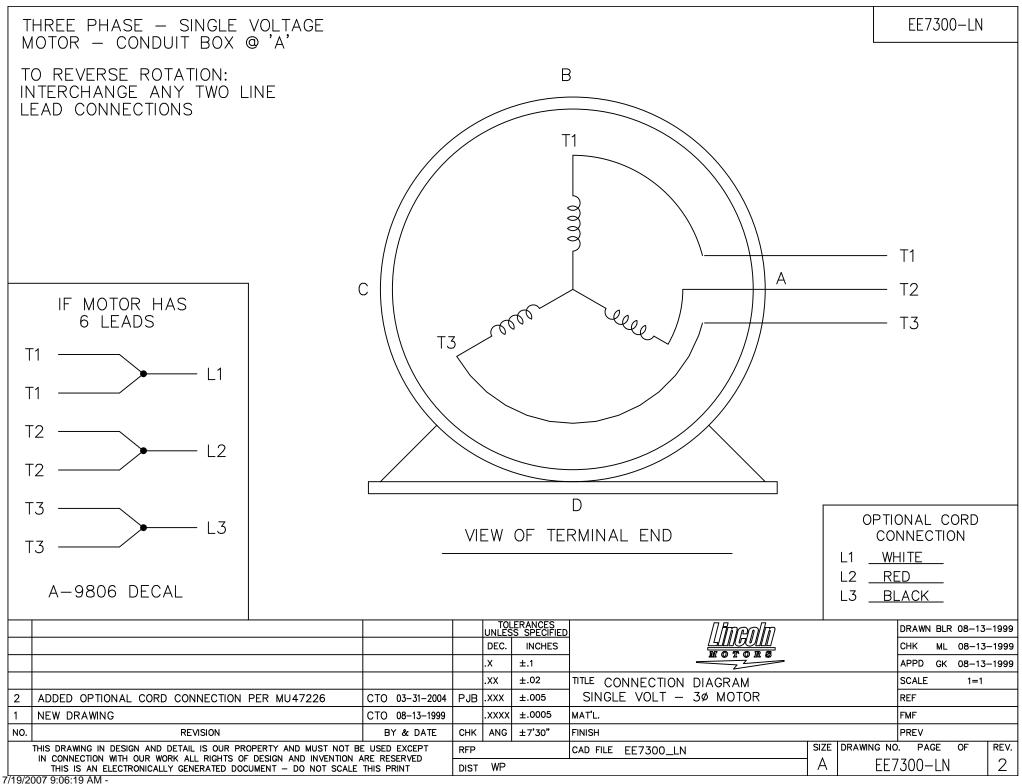
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.894 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	U	Overall Length	25.64 in
Frame Length	13.50 in	Shaft Diameter	1.375 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS203586LN-1350	Connection Drawing	A-EE7300-LN

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/28/2022





												UNLES	LERANCES SS SPECIFIED	<u> [Incoln]</u>	DRAWN	BJW 8/22/00
												DEC.		<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	RWF	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	BJW	08-23-2000	ML	.xxxx	±.0005	MAT'L.	FMF	
1175	254U	10.25	23.89	8.25	4.12	20.39	NO.	REVISION		Y & DATE	СНК	ANG	±7'30"	FINISH	PREV	
							Γ^-	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE			RFP			CAD FILE ss203586In SIZE DRAWING NO		E 1 OF 1 REV.
1350	256U	12.00	25.64	10.00	5.00	22.14	l	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A			DIST	LB		B SS20	0358	6LN 3





CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7300-LN **OUTLINE:** B-SS203586LN-1350

CATALOG: LM21846

WINDING #: K2154249 R9 2

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1765	256UC	TEFC	G	В

	PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
ſ	3	60	460	12.5	ACROSS THE LINE	CONTINUOUS	F3	1.0	65

FULL LOAD EFF:	91.7	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	82	3/4 LOAD PF:	78	1/2 LOAD PF:	68	90.2	SQ CAGE IND RUN

F.L. TORQUE LOCKED ROTOR AMPS		L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	80	60 LB-FT 201 %	81 LB-FT 272 %	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.1 LB-FT^2	192 LB-FT^2	20 SEC.	2	260 LBS.

*** 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	CRECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFITYPE	SPECIAL DE SPECIAL ODE		MATERIAL	MATERIAL
BALL	BALL	DOLVDEY EM		NONE	NONE	1045 HOT BOLLED (C 204)	CACT IDON
309	207 POLYREX EM		м	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

	THERMO-PROTE	THERMISTORS	CONTROL	CDACE HEATEDS			
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	IHERMISTORS	CONTROL	SPACE HEATERS	
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS	

CONFORMS TO GM-7EH & SATISFIES CHRYSLER NPEM- 100 &

FORD EM-1 SPECIFICATIONS

0

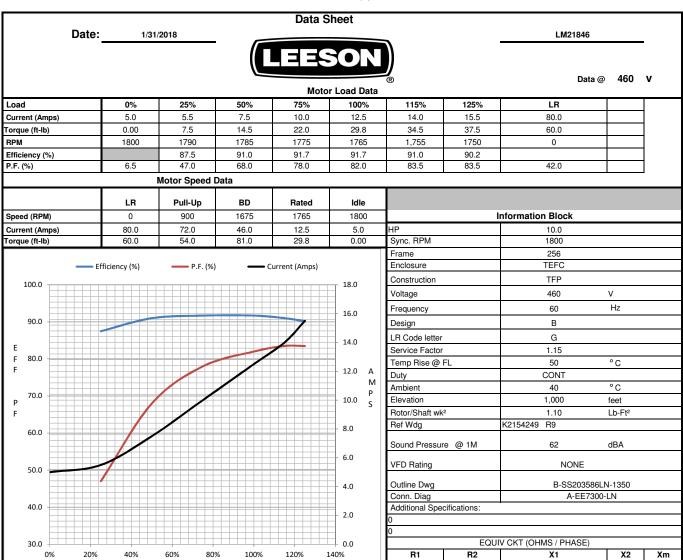
INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE

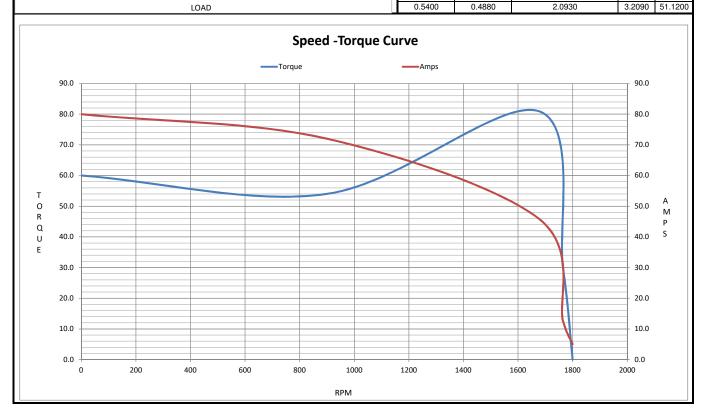
ENCODER: NONE NONE NONE NONE NONE PPR

BRAKE: NONE NONE P/N NONE NONE NONE NONE

FT-LB NONE V NONE NONE Hz

S







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: LM21846

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

Catalog No: LM21846

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:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer