

PRODUCT INFORMATION PACKET

Model No: LM21840

Catalog No: LM21840

Automotive Duty Motor, 5 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 215UC Frame, TEFC



Regal and are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

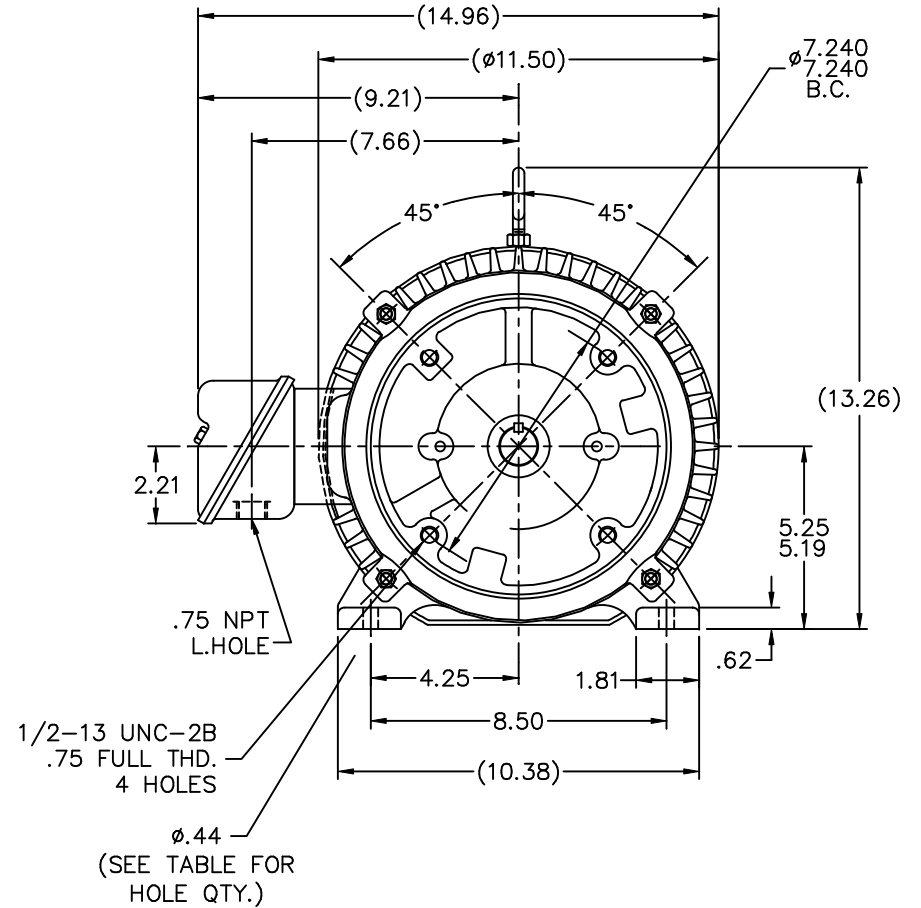
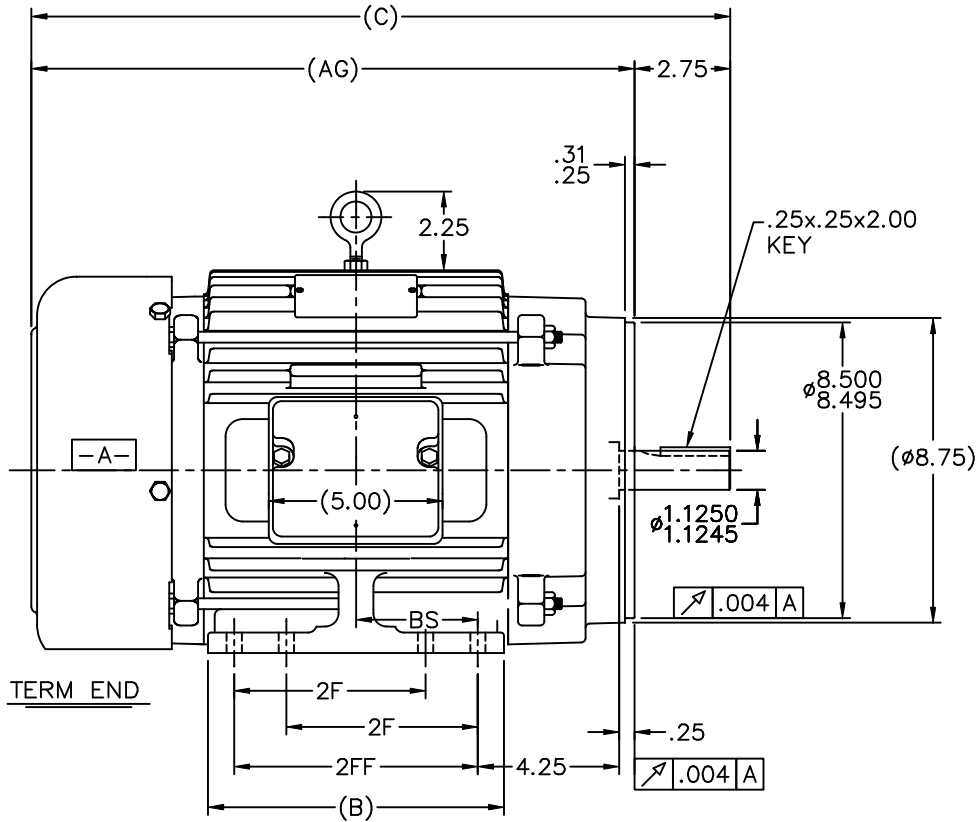
Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	460 V
Current	6.5 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	215UC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	206
UL	Recognized	CSA	Y
CE	Y	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	2.16 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	20.08 in
Frame Length	8.75 in	Shaft Diameter	1.125 in
Shaft Extension	3 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS88249LN-875	Connection Drawing	A-EE7300-LN

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:09/07/2022



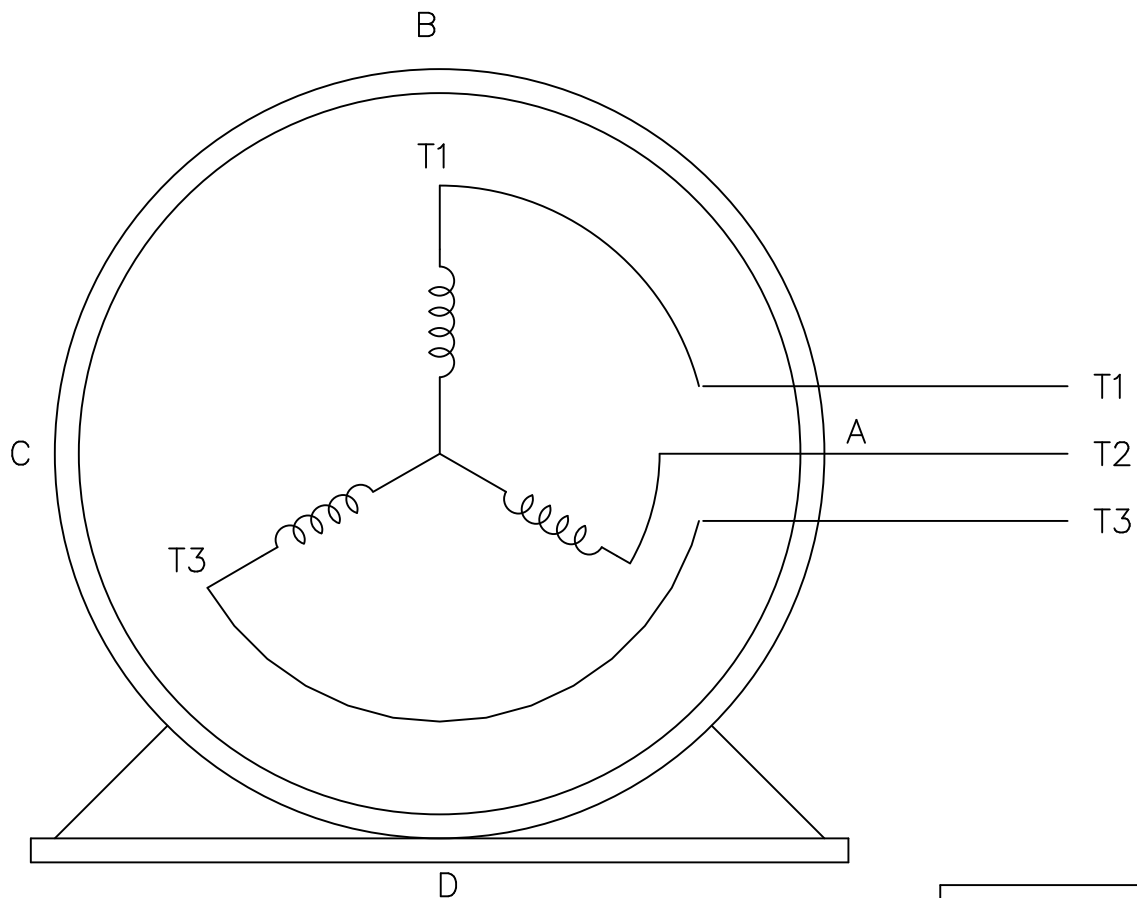
- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS.
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

									TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN DRS 08-08-2000							
									DEC.	INCHES			CHK	ML	08-08-2000					
									4	UPDATED DIM'S & TABLE FOR FOOT HOLES CN 38308	TAT	06-21-2005	ML	.X	±.1	APPD	TB	08-14-2000		
									3	REVISED C' BOX WAS 3.75" WIDE CN 28426	RJW	01-07-2005	.XX	±.03	TITLE OUTLINE					
									2	CORRECTED DASH 725 C DIM WAS 21.58 CN29200-1013	BJW	10-27-2000	.XXX	±.005	210UC FR. - BB - TEFC - C' FACE					
									1	NEW DRAWING MU32711	DRS	08-14-2000	.XXXX	±.0005	MAT'L					
									NO. REVISION		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 ss88249ln		SIZE	DRAWING NO.	PAGE	OF	REV.
DASH	FRAME	C	AG	B	2F	2FF	BS	FOOT HOLE QTY.	DIST	LB	B	SS88249LN	4	4						

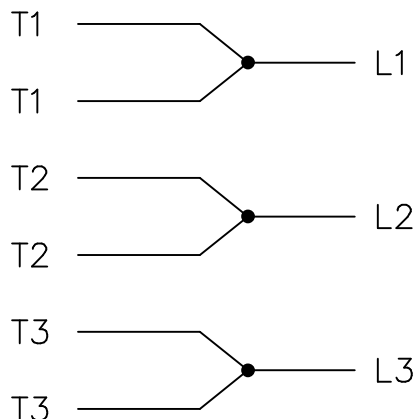
THREE PHASE – SINGLE VOLTAGE
MOTOR – CONDUIT BOX @ 'A'

EE7300-LN

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS




IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1 WHITE
L2 RED
L3 BLACK

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 08-13-1999			
				DEC.	INCHES		CHK ML 08-13-1999			
				.X	±.1		APPD GK 08-13-1999			
				.XX	±.02		SCALE 1=1			
2	ADDED OPTIONAL CORD CONNECTION PER MU47226	CTO 03-31-2004	PJB	.XXX	±.005	TITLE CONNECTION DIAGRAM SINGLE VOLT – 3Ø MOTOR	REF			
1	NEW DRAWING	CTO 08-13-1999		.XXXX	±.0005		MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 EE7300_LN		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST	WP		A	EE7300-LN			2

Data Sheet

Date: 2/1/2018

LM21840



Data @ 460 V

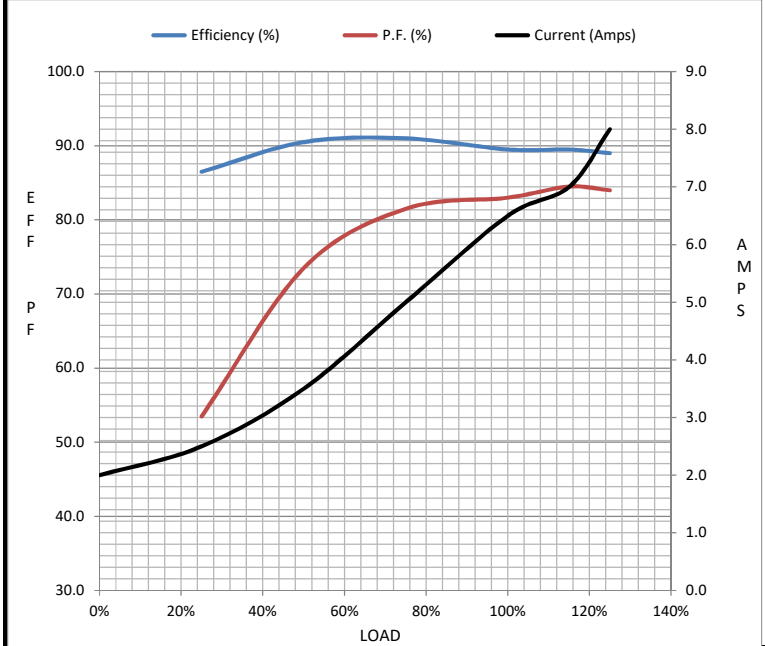
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.00	2.50	3.5	5.0	6.5	7.0	8.0	37.0
Torque (ft-lb)	0.00	3.5	7.5	11.0	14.9	17.5	19.0	28.0
RPM	1800	1790	1780	1770	1765	1750	1745	0
Efficiency (%)		86.5	90.5	91.0	89.5	89.5	89.0	
P.F. (%)	8.0	53.5	73.5	81.5	83.0	84.5	84.0	37.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1610	1765	1800
Current (Amps)	37.0	32.0	24.0	6.5	2.00
Torque (ft-lb)	28.0	26.0	35.0	14.9	0.00

Information Block				
HP	5.0			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.80 Lb-Ft ²			
Ref Wdg	K2134163 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS88249LN-875			
Conn. Diag	A-EE7300-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2410	0.1950	0.9310	1.4980	23.7540



Speed - Torque Curve

