

# PRODUCT INFORMATION PACKET

Model No: LM21859

Catalog No: LM21859

Automotive Duty Motor, 40 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 364UC Frame, TEFC



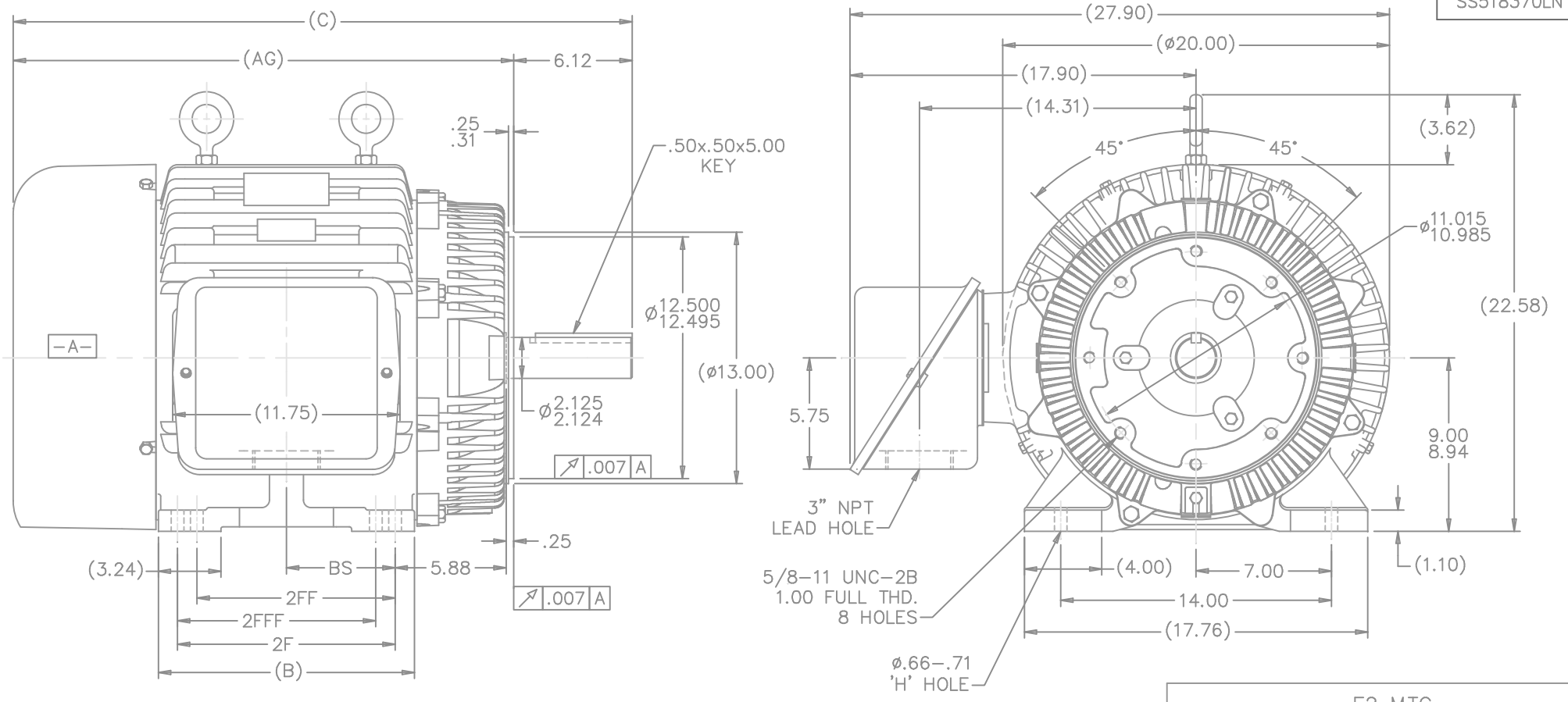
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**Nameplate Specifications**

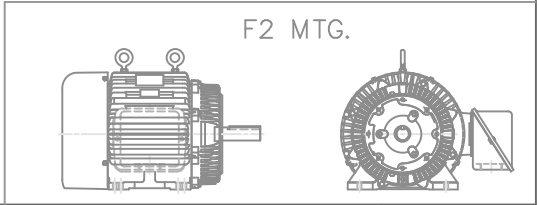
Output HP	<b>40 Hp</b>	Output KW	<b>30.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>46.5 A</b>	Speed	<b>1780 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>94.1 %</b>	Power Factor	<b>86</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>F</b>
Frame	<b>364UC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>65 °C</b>
Drive End Bearing Size	<b>6314</b>	Opp Drive End Bearing Size	<b>6312</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.16 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>U</b>	Overall Length	<b>32.00 in</b>
Frame Length	<b>13.50 in</b>	Shaft Diameter	<b>2.125 in</b>
Shaft Extension	<b>6.38 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Outline Drawing	<b>B-SS518370LN-1350</b>	Connection Drawing	<b>A-EE7300-LN</b>



- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.  
 2. CONDUIT 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.



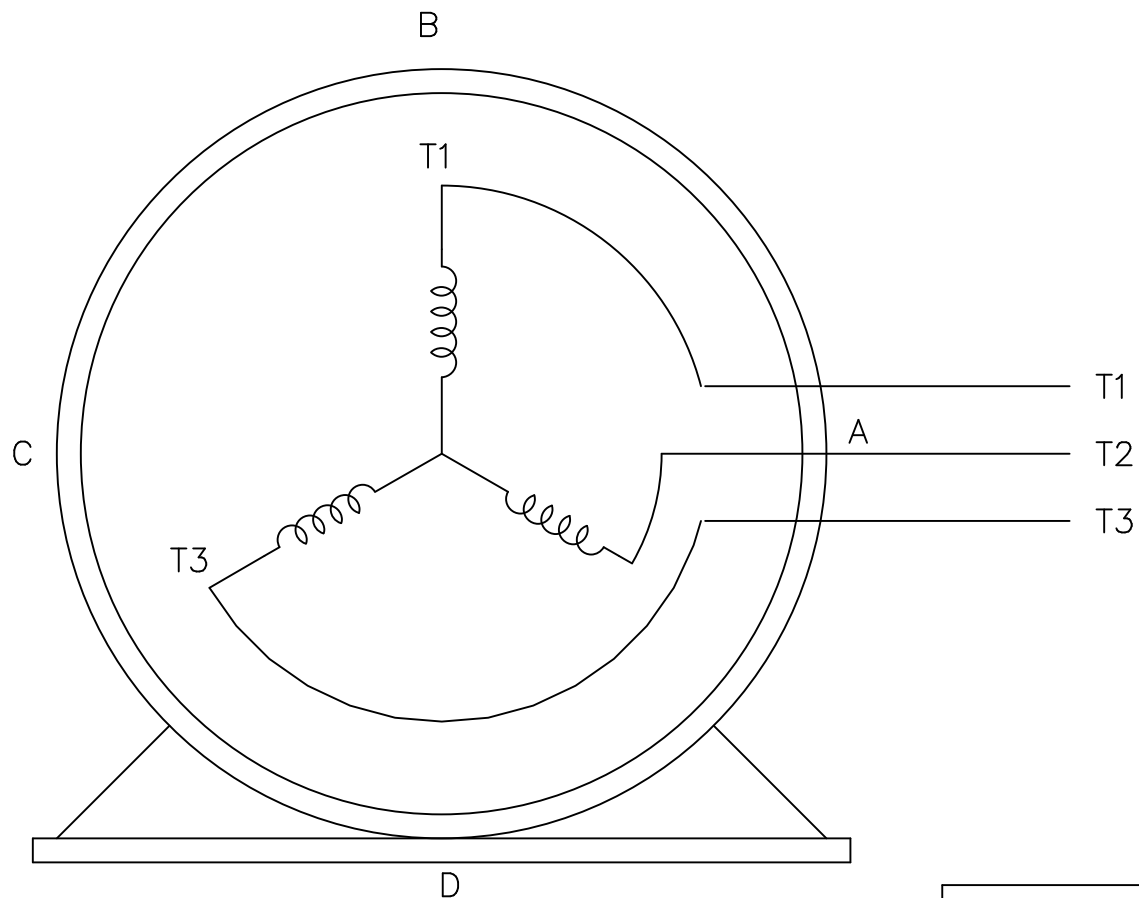
DASH	FRAME	C	H	B	AG	2F	2FF	2FFF	BS
1350	364UC	32.00	4	13.25	25.88	11.25			5.62
1450	365UC	33.00	8	14.25	26.88	12.25	11.25	11.25	6.12

			TOLERANCES UNLESS SPECIFIED		DRAWN		
			DEC.	INCHES	KL	04-23-2001	
3	REVISED EYEBOLTS	CN 35028	MSG	09-04-2002	JHL	.XX ±.03	TITLE OUTLINE - TAPPED LEAD HOLE
2	(4) FOOT HOLES ADDED AUTO DUTY	CN 35028	BJK	07-19-2002	DRS	.XXX ±.005	360UC FR. - TEFC - C'FACE
1	NEW DRAWING	MU37066	KL	04-23-2001	.XXXX ±.0005	MAT'L	SCALE 1=5
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	REF B-SS515325
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	SS518370LN	FMF
			DIST	WA	SIZE	DRAWING NO.	PREV
					B	SS518370LN	OF 3
							REV. 3

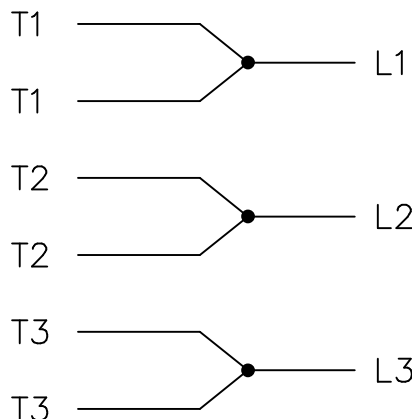
THREE PHASE – SINGLE VOLTAGE  
MOTOR – CONDUIT BOX @ 'A'

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: 1/30/2018

LM21859



Data @ **460 V**

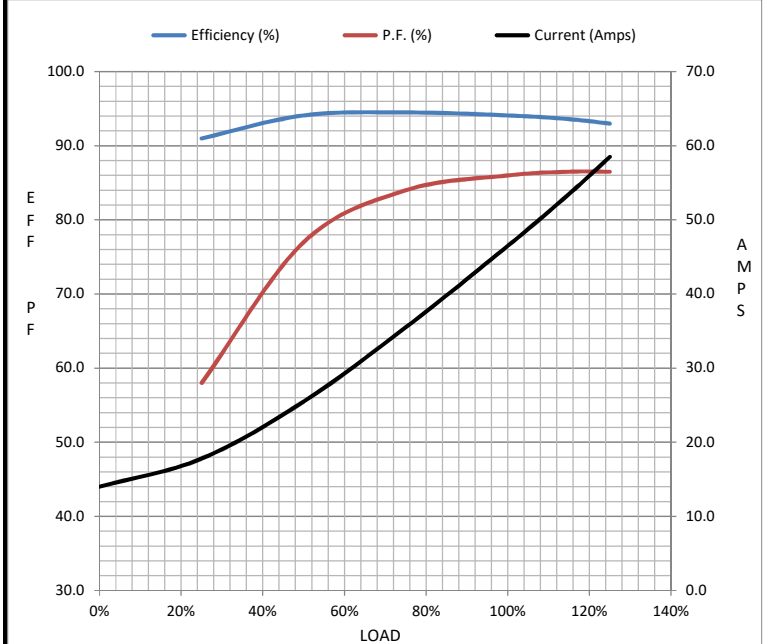
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	14.0	17.8	25.5	35.5	46.5	53.5	58.5	275
Torque (ft-lb)	0.00	29.3	58.8	88.5	118	136	148	180
RPM	1800	1795	1790	1785	1780	1.775	1772	0
Efficiency (%)		91.0	94.1	94.5	94.1	93.6	93.0	
P.F. (%)	5.5	58.0	77.0	84.0	86.0	86.5	86.5	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1780	1800
Current (Amps)	275	250	150	46.5	14.0
Torque (ft-lb)	180	165	270	118	0.00

Information Block				
HP	40.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	13.8 Lb-Ft <sup>2</sup>			
Ref Wdg	T3644143 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS518370LN-1350			
Conn. Diag	A-EE7300-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1020	0.0690	0.6690	0.7590	18.6820



Speed - Torque Curve

