

# PRODUCT INFORMATION PACKET

Model No: LM20708

Catalog No: LM20708

Automotive Duty Motor, 2 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 184U Frame, TEFC



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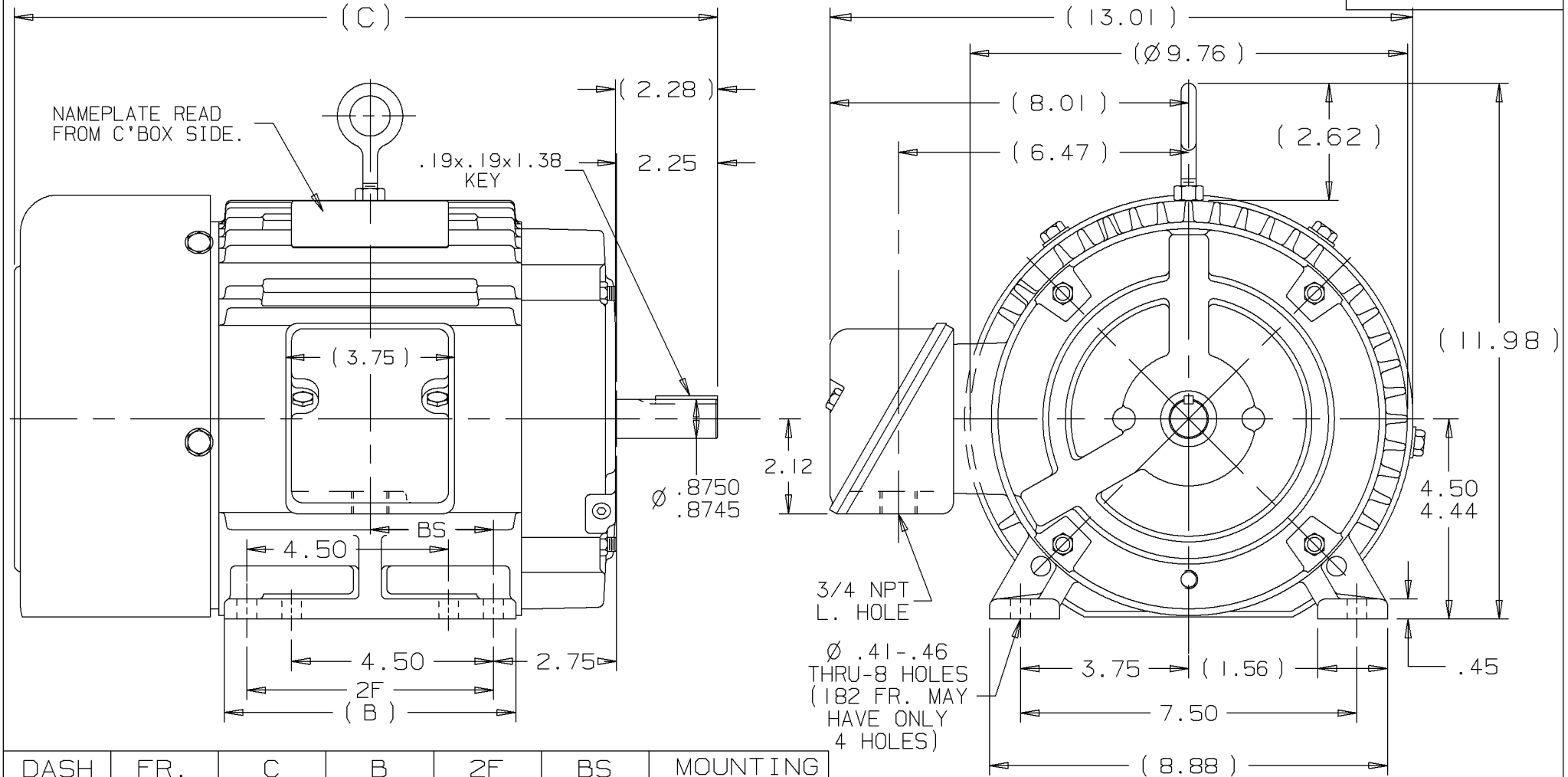
## Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	460 V
Current	2.6 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Frame	184U	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	206	Opp Drive End Bearing Size	205
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	5.8 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	15.69 in
Frame Length	6.75 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS69291LN-675	Connection Drawing	A-EE7300-LN

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BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.

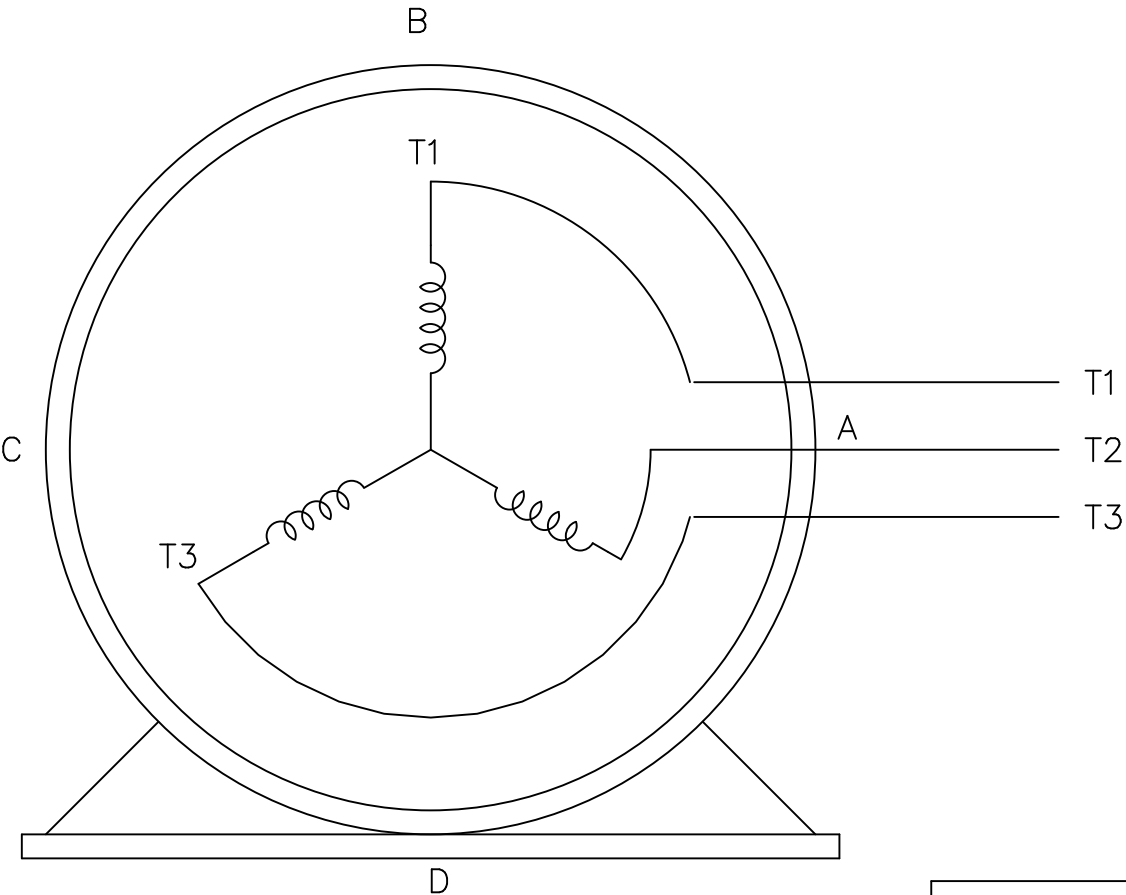
BOX CAN BE ROTATED IN 90° STEPS.

					TOLERANCES UNLESS SPECIFIED			DRAWN CAV 08-08-2002					
					DEC.	TOLERANCE		CHK	ML 08-08-2002				
					.X	±.1		APPD	PH 08-09-2002				
					.XX	±.03		SCALE					
					.XXX	±.005	TITLE OUTLINE 180U FR. BB TS		REF				
I	NEW DRAWING MU42917			CAV	08-09-2002	PH	.XXXX	±.0005	✓ SURFACE ROUGHNESS UNLESS SPECIFIED	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						PURCHASED		CAD FILE	SS69291LN	SHOP BOOK	SIZE	DRAWING NO.	REV.
						DIST		WA - LB - NC - TX - OK - TX			SS69291LN		

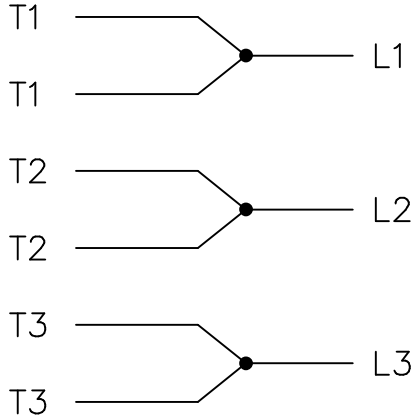
THREE PHASE – SINGLE VOLTAGE  
MOTOR – CONDUIT BOX @ 'A'

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
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			DIST WP				A	EE7300-LN	2



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** A-EE7300-LN

**CATALOG #:** LM20708

**OUTLINE:** A-SS69291LN-675

**WINDING #:** K1824121 1

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1800	1765	184U	TEFC	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	2.6	ACROSS THE LINE	CONTINUOUS	F3	1.0	65

<b>FULL LOAD EFF:</b> 89.5	<b>3/4 LOAD EFF:</b> 89.5	<b>1/2 LOAD EFF:</b> 87.5	<b>GTD. EFF</b>	<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b> 80	<b>3/4 LOAD PF:</b> 75	<b>1/2 LOAD PF:</b> 63	87.5	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	24	14.1 LB-FT 235 %	21 LB-FT 350 %	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.4 LB-FT^2	13 LB-FT^2	30 SEC.	2	95 LBS.

**\*\*\* 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	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	U	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
206	205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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\*

<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE FT-LB V NONE Hz

## Data Sheet

Date: 1/24/2018

LM20708



Data @ 460 V

## Motor Load Data

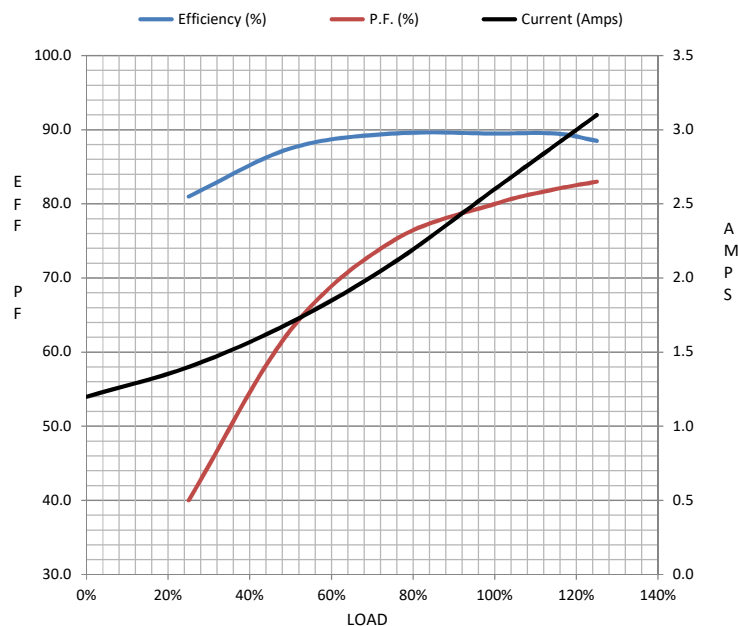
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.20	1.40	1.70	2.10	2.60	2.90	3.1	24.0	
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	7.0	7.5	14.1	
RPM	1800	1790	1785	1775	1765	1760	1755	0	
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5		
P.F. (%)	8.0	40.0	63.0	75.0	80.0	82.0	83.0	44.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1450	1765	1800
Current (Amps)	24.0	22.0	14.0	2.60	1.20
Torque (ft-lb)	14.1	12.0	21.0	6.0	0.00

## Information Block

HP	2.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.40 Lb-Ft²			
Ref Wdg	K1824121 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS69291LN-675			
Conn. Diag	A-EE7300-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.5360	2.1300	7.6680	12.2120	213.0000



## Speed - Torque Curve

