

PRODUCT INFORMATION PACKET

Model No: LM34110

Catalog No: LM34110

Automotive Duty Motor, 75 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 444U Frame, TEFC



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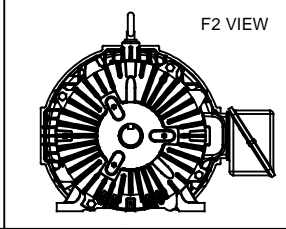
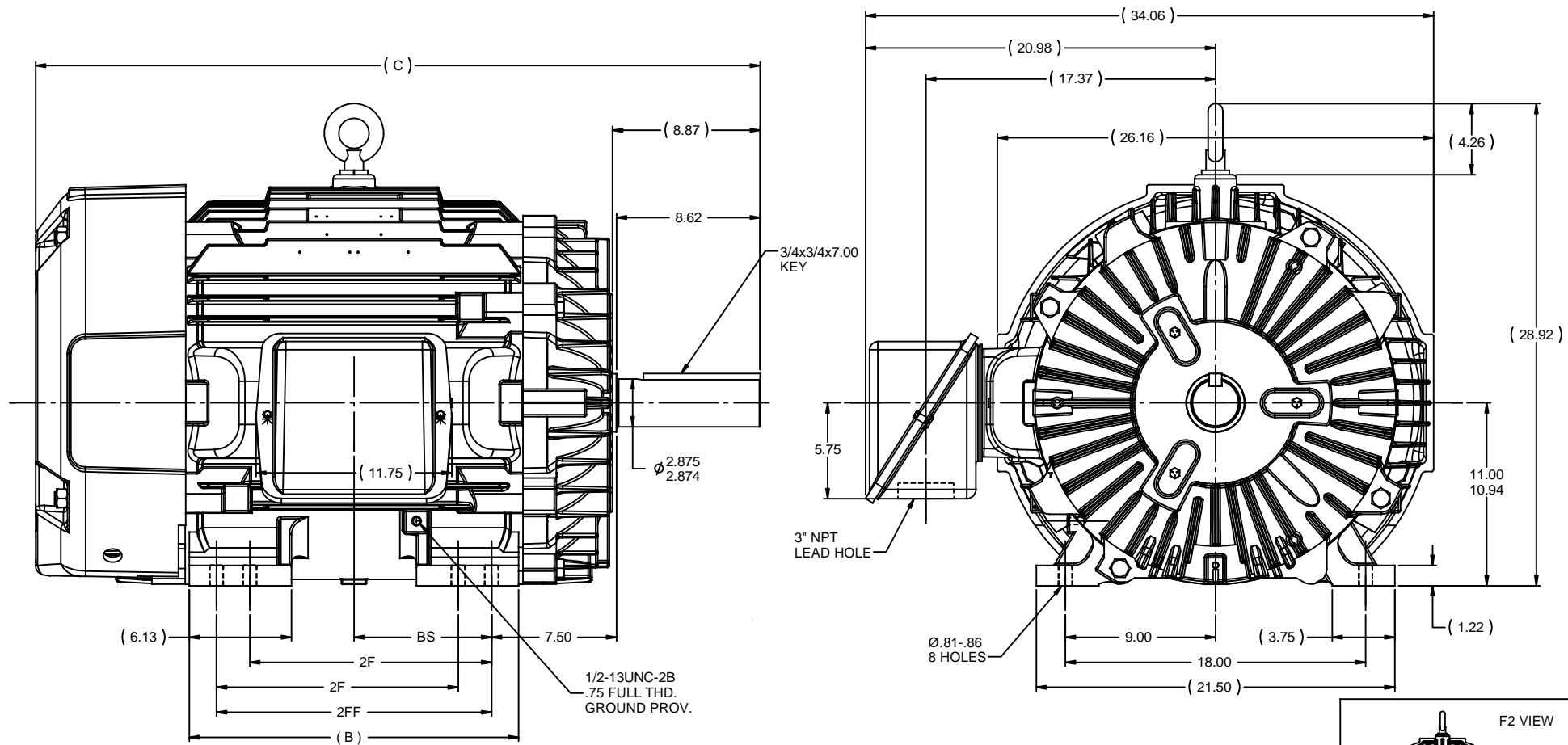
Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	460 V
Current	85.0 A	Speed	1788 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	444U	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.07 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	43.47 in
Frame Length	20.25 in	Shaft Diameter	2.875 in
Shaft Extension	8.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS517165LN-2025	Connection Drawing	A-EE7340-LN

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- 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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2025	444/445U	19.75	43.47	14.50	16.50	8.25

REVISION		BY & DATE	CHK	ANG	FINISH	PREV	SIZE	DRAWING NO	REV
2	UPDATED TO NEW FRAME MU 96632	HLB 07-29-2010	ML	XXX	±.005		B	SS517165LN	2
1	NEW DRAWING MU 35750	KL 02-01-2001		XXXX	±.0005				

TOLERANCES UNLESS SPECIFIED:
 DEC INCHES
 X ±.1
 XX ±.03
 XXX ±.005
 XXXX ±.0005

TITLE OUTLINE
 445U FR. - TEFC - TAPPED LEAD HOLE

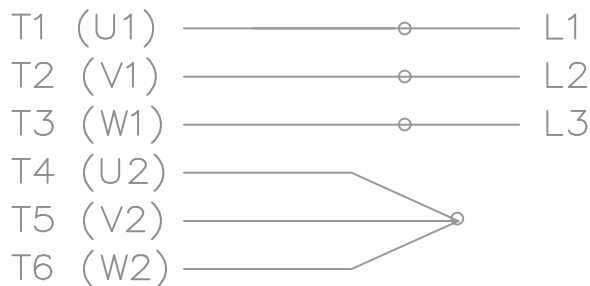
MATL
 NETWORK FILE NAME SS517165LN

DRAWN KL 02-01-2001
 CHK DJK 02-01-2001
 APPR DJK 02-01-2001
 SCALE 1:6
 REF
 FMF
 PAGE OF

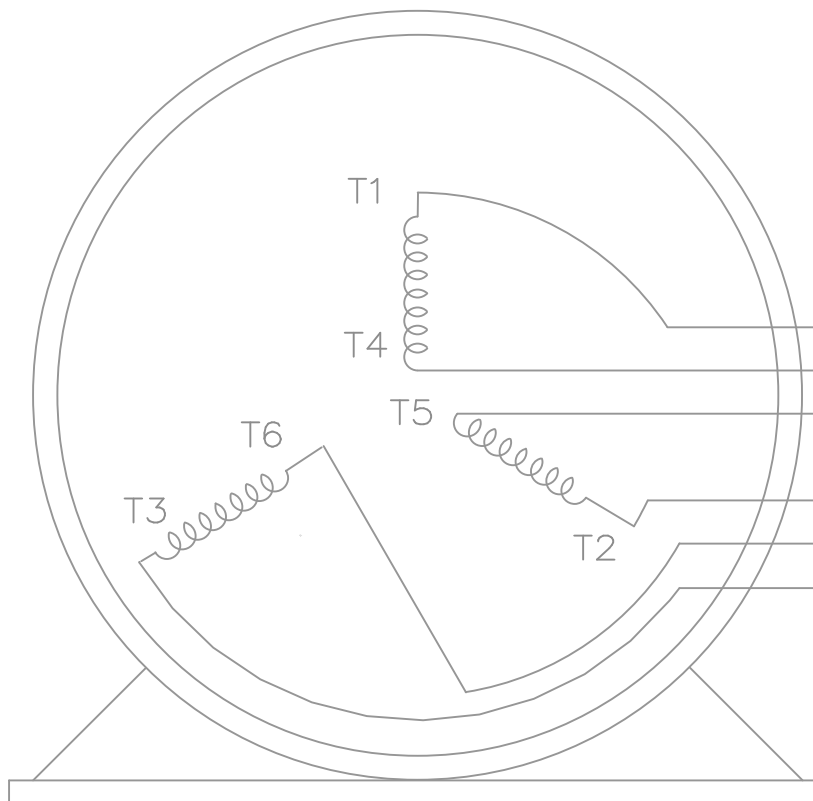
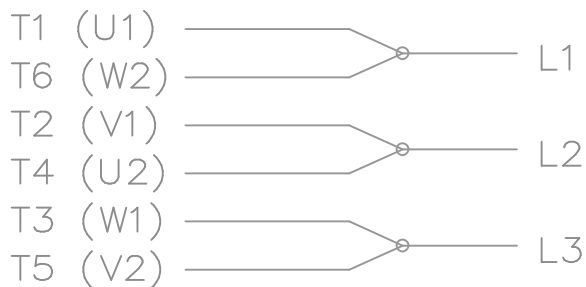
THIRD ANGLE PROJECTION

THREE PHASE – Y START
Δ RUN MOTOR

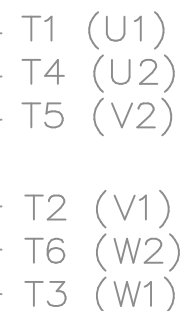
START



RUN




VIEW OF TERMINAL END



T6CK
T6BM
T4CC
T2DL
T4C

NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARENTHESES

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999		
				DEC.	INCHES		CHK DRS 10-04-1999		
				.X	±.1		APPD TB 10-04-1999		
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM 3Ø – WYE START DELTA RUN	SCALE 1=1		
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005		REF		
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005		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 ee7340_In		SIZE	DRAWING NO. PAGE OF	REV.
				DIST	WA-LB-SB		A	EE7340-LN 3	3

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
 OUTLINE: B-SS517165LN-2025
 WINDING: T4444135

CAT #: LM34110

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1788	444U	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	85	VYE START DELTA RU	CONT	F	1.15	65	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	ELECT. TYPE
F.L. PF	87.0	3/4 LD PF	84.5	1/2 LD PF	78.0	94.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
221 LB-FT	542	315 LB-FT 143%	525 LB-FT 238%	50

PRESSURE @ 3	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	47.0 LB-FT ²	0 LB-FT ²	25 SEC.	2	1950 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	U	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318	6316						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.049	0.022	0.332	0.345	10.338	0.080	ODE

* N O T E S *	INVERTER TORQUE: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

DATE: 1/29/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	
	VOLTAGE: NONE HZ:	
UL: V-INS, CONST UL REC		

Data Sheet

Date: 1/29/2018

LM34110



Data @ 460 V

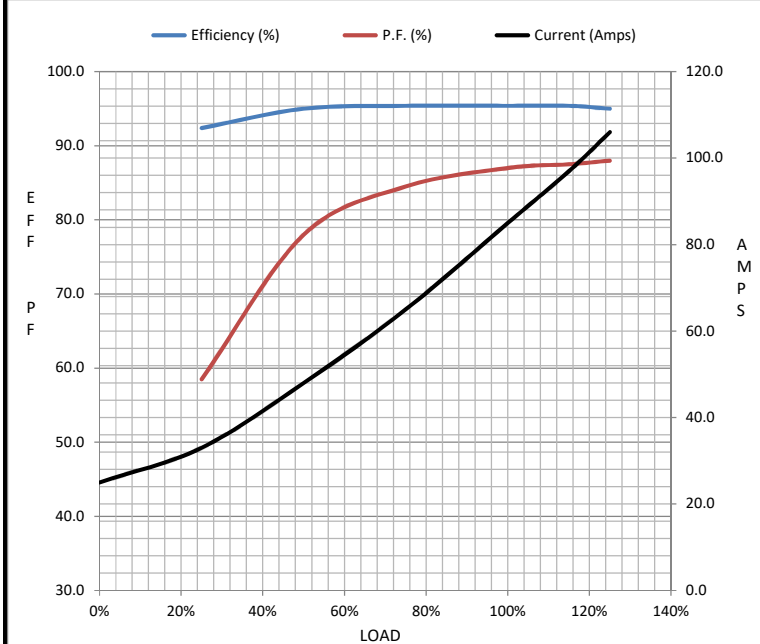
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	25.0	33.0	48.0	65.0	85.0	97.0	106	542
Torque (ft-lb)	0.00	55.0	110	165	221	254	276	315
RPM	1800	1798	1795	1790	1788	1.785	1782	0
Efficiency (%)		92.4	95.0	95.4	95.4	95.4	95.0	
P.F. (%)	5.5	58.5	78.0	84.5	87.0	87.5	88.0	26.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1788	1800
Current (Amps)	542	475	310	85.0	25.0
Torque (ft-lb)	315	250	525	221	0.00

Information Block				
HP	75.0			
Sync. RPM	1800			
Frame	444			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	47.0 Lb-Ft ²			
Ref Wdg	T4444135 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS517165LN-2025			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0490	0.0220	0.3320	0.3450	10.3380



Speed - Torque Curve

