PRODUCT INFORMATION PACKET

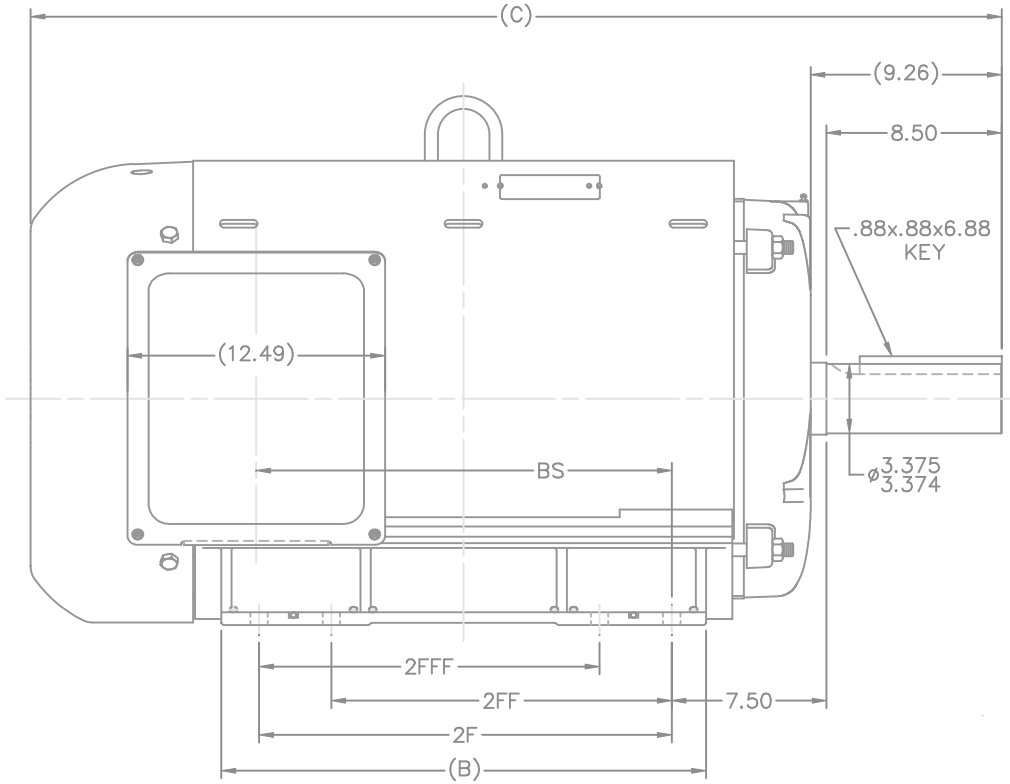
Model No: LM15120
Catalog No: LM15120
125 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 444T Frame, TEFC
Special Voltage Motors

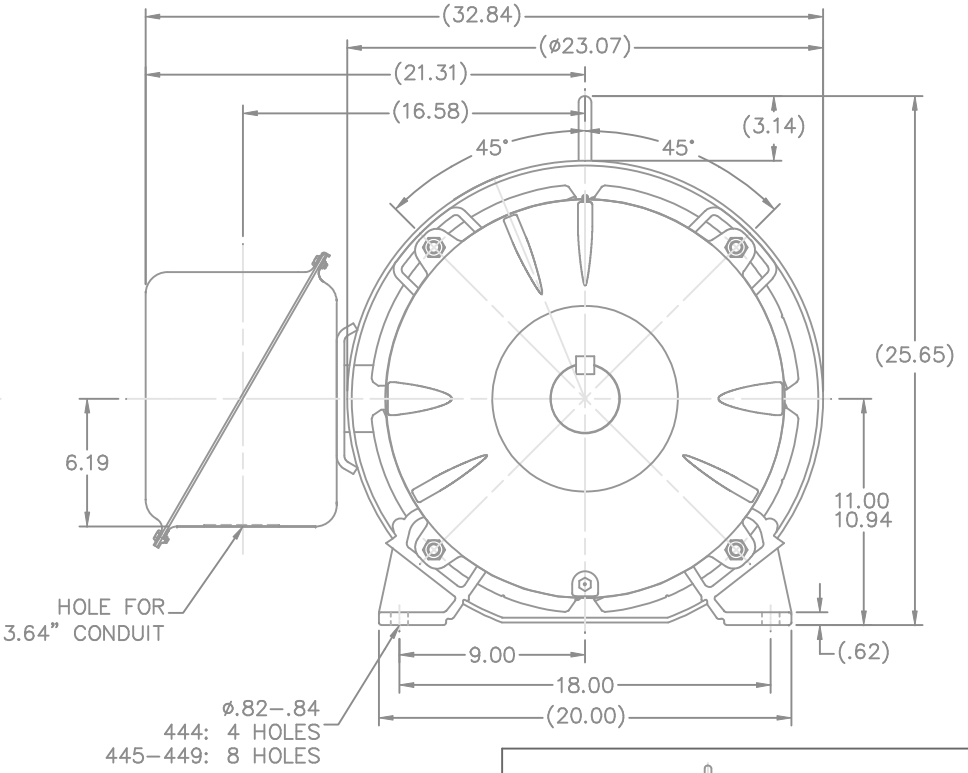
Nameplate Specifications

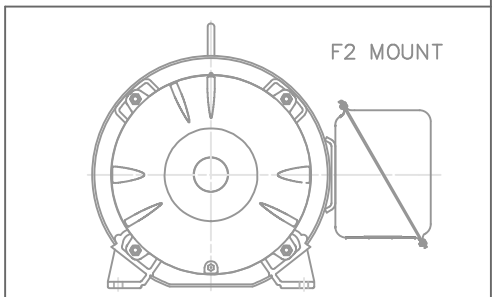
Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	575 V
Current	117.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	83.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	444T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6315
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	.03 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	41.58 in
Frame Length	21.17 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XK2F1SS1-2117	Connection Drawing	A-EE7340-LN







NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS
2117	444T	41.58	--	18.00	14.50			14.62
2317	445T	43.58	--	20.00	16.50	14.50	14.50	16.64
2667	447T	47.08	--	23.50	20.00	16.50	16.50	20.14
3167	449T	52.08	--	28.50	25.00	20.00	20.00	25.14

NO.	REVISION	BY & DATE	CHK
7	CORRECTED NEMA DIMENSIONS CN09-1257	TJW 4/15/2009	CTO
6	REDRAWN IN SOLIDWORKS	RWR 2/19/2009	TB
5	REPLACED BLOWER SHROUD PER ISAAC 08-5529	MSG 01-08-2009	MSG
4	CORRECTED C'BOX PER MU60939	CTO 09-09-2004	HNH
3	ADDED DRAIN PLUG PER BRACKET CHANGE CN 37358	MSG 05-07-2004	ML
2	DRAWING REPLACES 3XSF126FSSK-1 CN 34258	TJB 10-01-2001	

TOLERANCES UNLESS SPECIFIED: DEC. INCHES; .X ±.1; .XX ±.03; .XXX ±.005; .XXXX ±.0005; ANG ±7'30"

RFP
DIST BY

TITLE OUTLINE NEMA MOTORS 440T TEFC UEI
CAD FILE xk2f1ss1

DRAWN MSG 09-19-2001
CHK ML 09-21-2001
APPD HNH 09-24-2001
SCALE 1=6
REF
FMF
MAT'L.
FINISH
PREV

SIZE B | DRAWING NO. XK2F1SS1 | PAGE OF | REV. 7

START

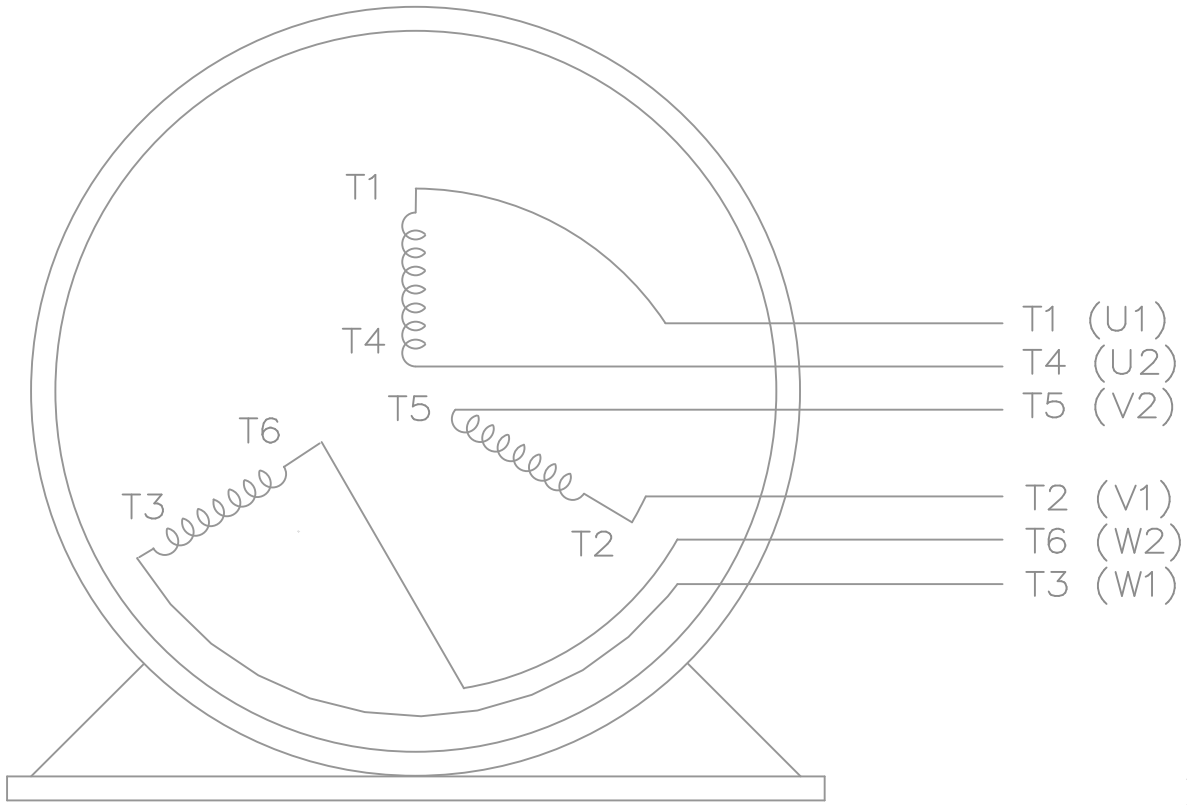
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

RUN

T1 (U1), T6 (W2) — L1
T2 (V1), T4 (U2) — L2
T3 (W1), T5 (V2) — L3

NOTE:
IEC LEAD MARKINGS ARE NOTED IN PARENTHESES

THREE PHASE – Y START
△ RUN MOTOR



VIEW OF TERMINAL END

T6CK
T6BM
T4CC
T2DL
T4C

NO.	REVISION	BY & DATE	CHK
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML
1	NEW DRAWING	BLR 10-09-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3ø – WYE START DELTA RUN

MAT'L.
FINISH
CAD FILE ee7340_ln
RFP
DIST WA-LB-SB

DRAWN BLR 10-04-1999
CHK DRS 10-04-1999
APPD TB 10-04-1999
SCALE 1=1
REF
FMF
PREV

SIZE A
DRAWING NO. EE7340-LN
PAGE OF
REV. 3

9/30/2008 5:41:56 AM

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN **CAT #:** LM15120
OUTLINE: XK2F1SS1-2117
WINDING: L4444016 NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1785	444T	TEFC	TFR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	117	WYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	96.2	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE
F.L. PF	83.5	3/4 LD PF	81.0	1/2 LD PF	75.5	95.4	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
368 LB-FT	720	675 LB-FT 183%	850 LB-FT 231%	75	

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 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 DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6318	BALL 6315	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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
0.039	0.025	0.312	0.394	9.967	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-INS, CONST UL REC

DATE: 1/23/2018

Data Sheet

Date: 1/23/2018

LEESON

LM15120

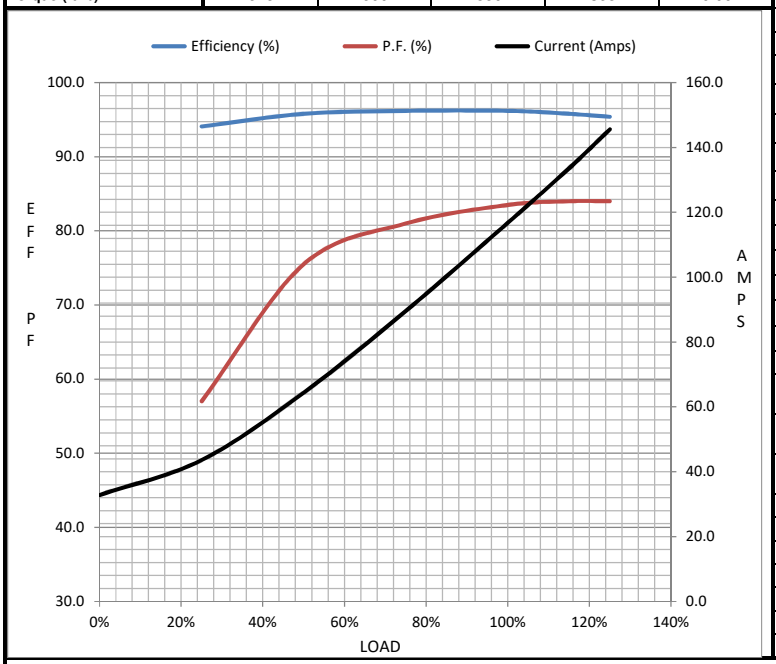
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	32.8	43.6	64.4	89.6	117	134	146	720	
Torque (ft-lb)	0.00	91.5	183	275	368	423	461	675	
RPM	1800	1797	1793	1790	1785	1,784	1782	0	
Efficiency (%)		94.1	95.8	96.2	96.2	95.8	95.4		
P.F. (%)	3.5	57.0	75.5	81.0	83.5	84.0	84.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	720	640	480	117	32.8
Torque (ft-lb)	675	600	850	368	0.00



Information Block

HP	125.0	
Sync. RPM	1800	
Frame	444	
Enclosure	TEFC	
Construction	TFR	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	L4444016 NONE	
Sound Pressure @ 1M	75	dBA
VFD Rating	NONE	
Outline Dwg	XK2F1SS1-2117	
Conn. Diag	A-EE7340-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0390	0.0250	0.3120	0.3940	9.9670

Speed -Torque Curve