PRODUCT INFORMATION PACKET

Model No: LM21230
Catalog No: LM21230
Speed Ratio Motors, TEFC, 125 HP, 3 Ph, 60 Hz, 460 V, 1788 RPM, 444T Frame

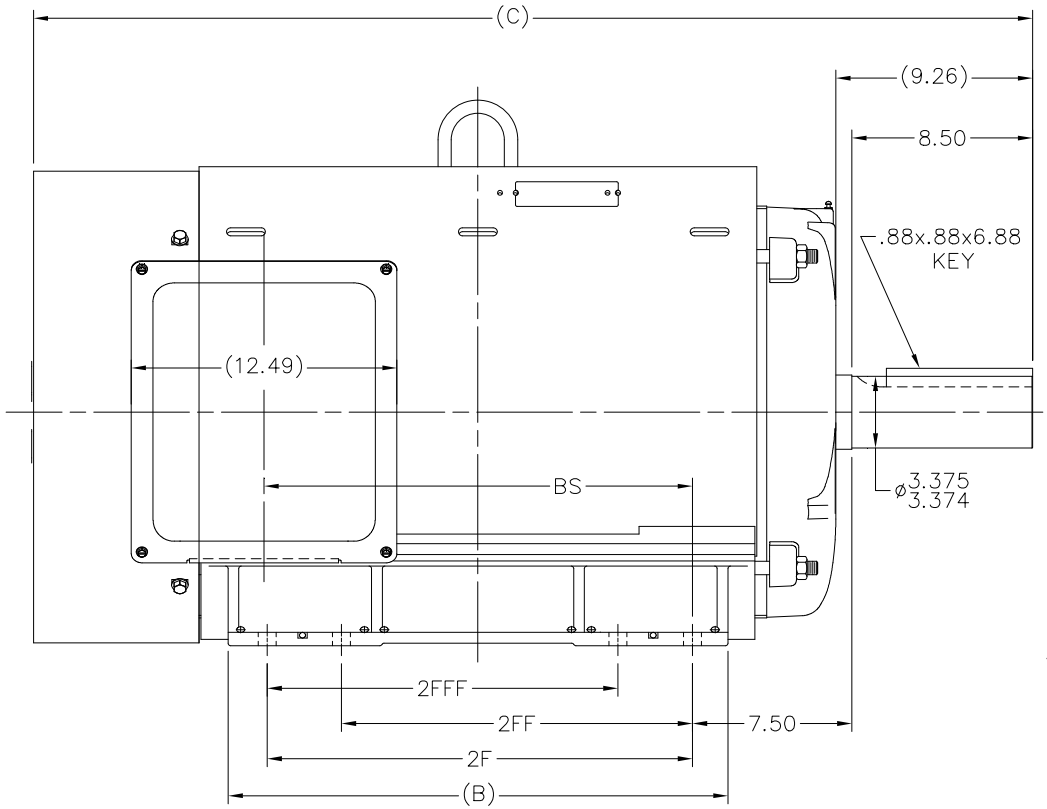
Nameplate Specifications

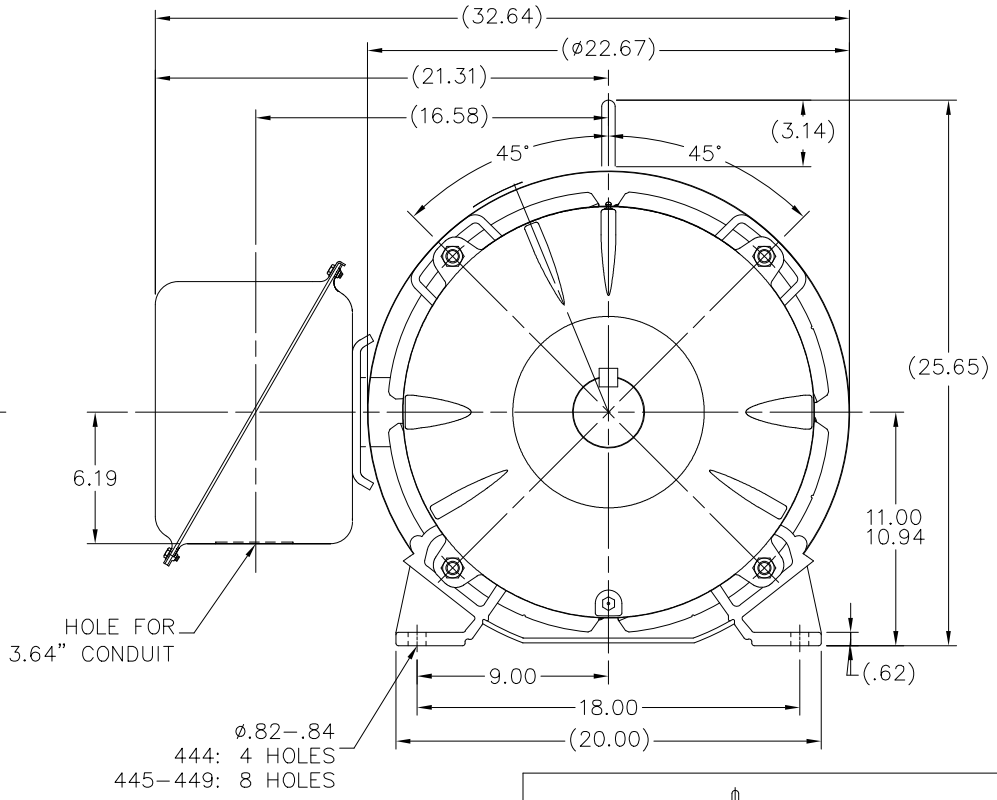
Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	146.0 A	Speed	1788 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	G
Frame	444T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	318	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

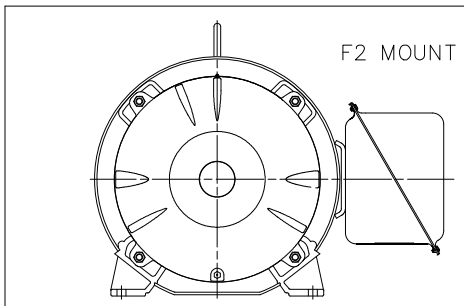
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.04 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	21.91 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 4:1		
Outline Drawing	XK2F1SS1-2117	Connection Drawing	A-EE7340D-LN

XK2F1SS1







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
8	Change from 3C223-K4 to 557963 fan guard	MK 11-10-2021	VJR

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

Lincoln MOTORS

TITLE OUTLINE NEMA MOTORS
440T TEFC UEI

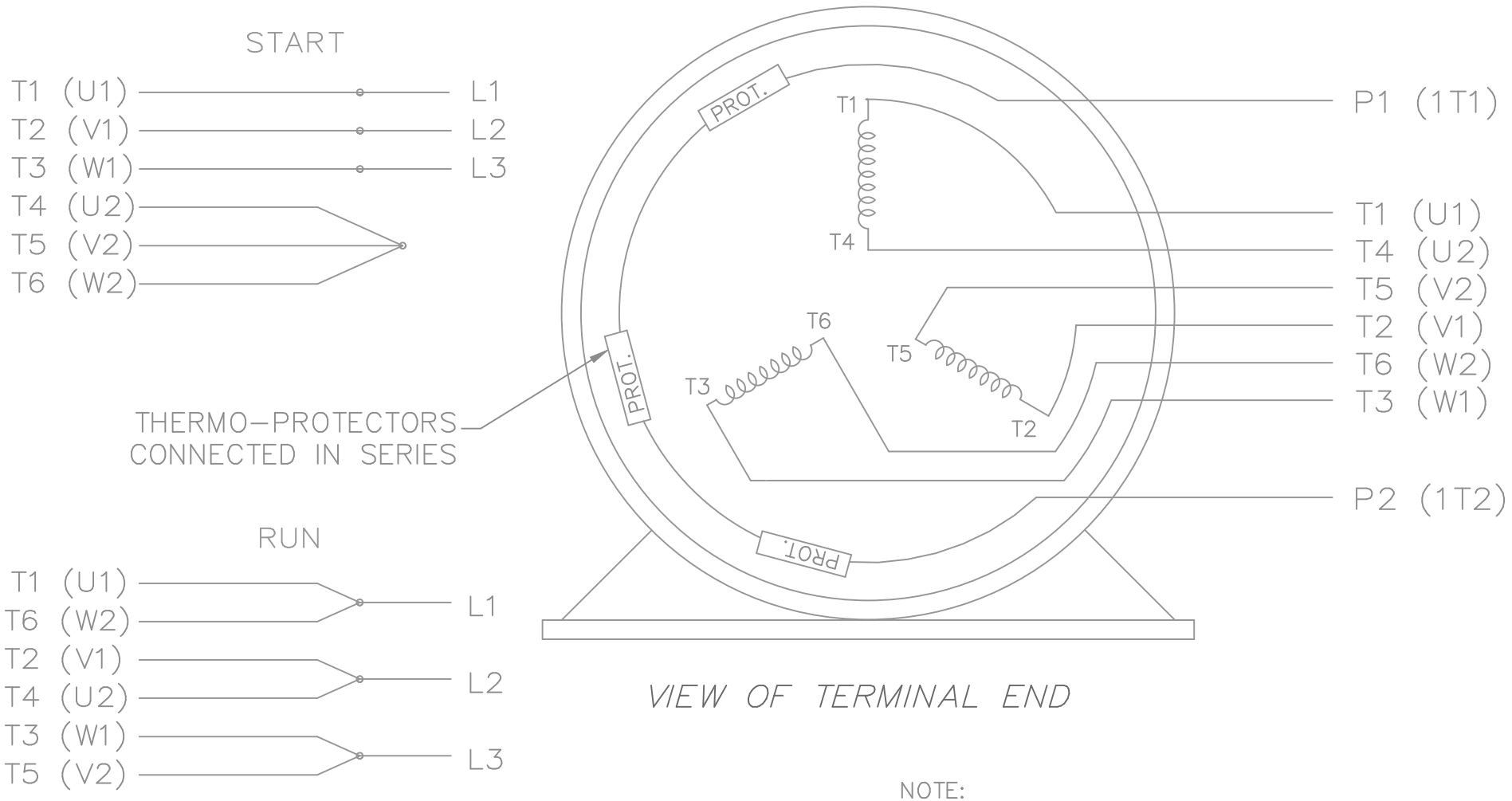
MAT'L.
FINISH
CAD FILE xk2f1ss1

DRAWN MSG 09-19-2001
CHK ML 09-21-2001
APPD HNH 09-24-2001
SCALE 1=6
REF
FMF
PREV

RFP
DIST BY

SIZE B
DRAWING NO. XK2F1SS1
PAGE OF
REV. 8

THREE PHASE
WYE START DELTA RUN



VIEW OF TERMINAL END

NOTE:
IEC LEAD MARKINGS ARE NOTED IN PARANTHESES

NO.	REVISION	BY & DATE	CHK
2	ADDED IEC LEAD MARKINGS	MSG 10-08-2008	ML
1	NEW DRAWING MU34618	KL 11-10-2000	DJK

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

Lincoln MOTORS

TITLE CONNECTION DIAGRAM – EXTERNAL – 3ø
WYE START DELTA RUN – SINGLE VOLTAGE

DRAWN	KL 11-10-2000
CHK	DJK 11-10-2000
APPD	DJK 11-10-2000
SCALE	1=1
REF	
FMF	
PREV	

MAT'L.
FINISH

RFP 11-10-2000
DIST
CAD FILE EE7340D_LN

SIZE	DRAWING NO.	PAGE OF	REV.
A	EE7340D_LN		2

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1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340D-LN **CAT #:** LM21230
OUTLINE: XK2F1SS1-2117
WINDING: C4444014 R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1788	444T	TEFC	TFR	G	INC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	146	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF	ELECT. TYPE
F.L. PF	84.5	3/4 LD PF	81.5	1/2 LD PF	73.5	93.6	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
367 LB-FT	907	725 LB-FT 198%	850 LB-FT 232%	65	

PRESSURE @ 3	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 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	WATTSAVER

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
318	315						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.03	0.014	0.186	0.227	5.017	0.080	ODE

*
NOTES
*

INVERTER TORQUE: CONSTANT 4:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-OVER TEMP PROT 3, P1-P2

DATE: 9/10/2018

Data Sheet

Date: 9/10/2018

LEESON

LM21230

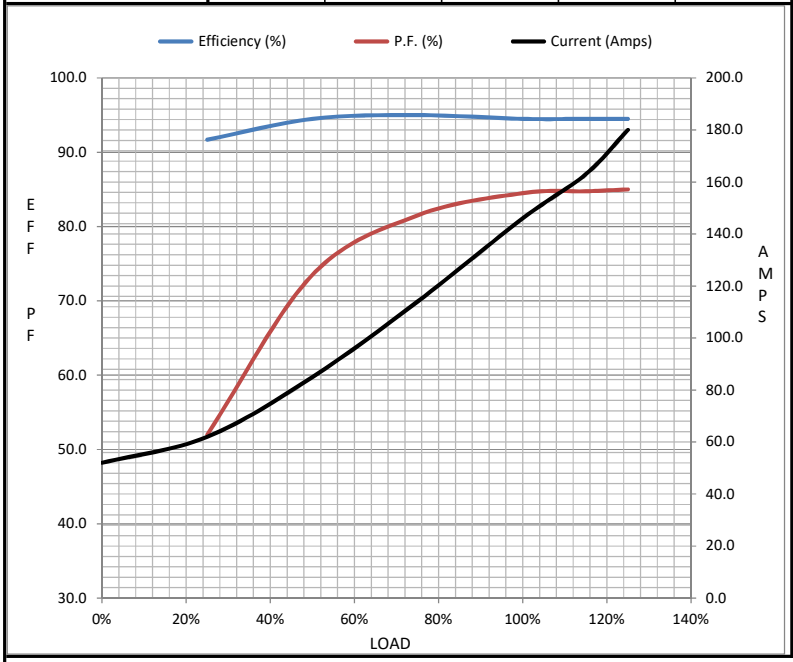
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	52.0	62.0	85.0	114	146	163	180	907	
Torque (ft-lb)	0.00	91.5	183	275	367	414	460	725	
RPM	1800	1796	1794	1790	1788	1,786	1782	0	
Efficiency (%)		91.7	94.5	95.0	94.5	94.5	94.5		
P.F. (%)	4.5	52.0	73.5	81.5	84.5	84.8	85.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1788	1800
Current (Amps)	907	825	550	146	52.0
Torque (ft-lb)	725	650	850	367	0.00



Information Block

HP	125.0	
Sync. RPM	1800	
Frame	444	
Enclosure	TEFC	
Construction	TFR	
Voltage	460	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.0	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	C4444014 R1	
Sound Pressure @ 1M	999	dBA
VFD Rating	CONSTANT 4:1	
Outline Dwg	XK2F1SS1-2117	
Conn. Diag	A-EE7340D-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0300	0.0140	0.1860	0.2270	5.0170