PRODUCT INFORMATION PACKET

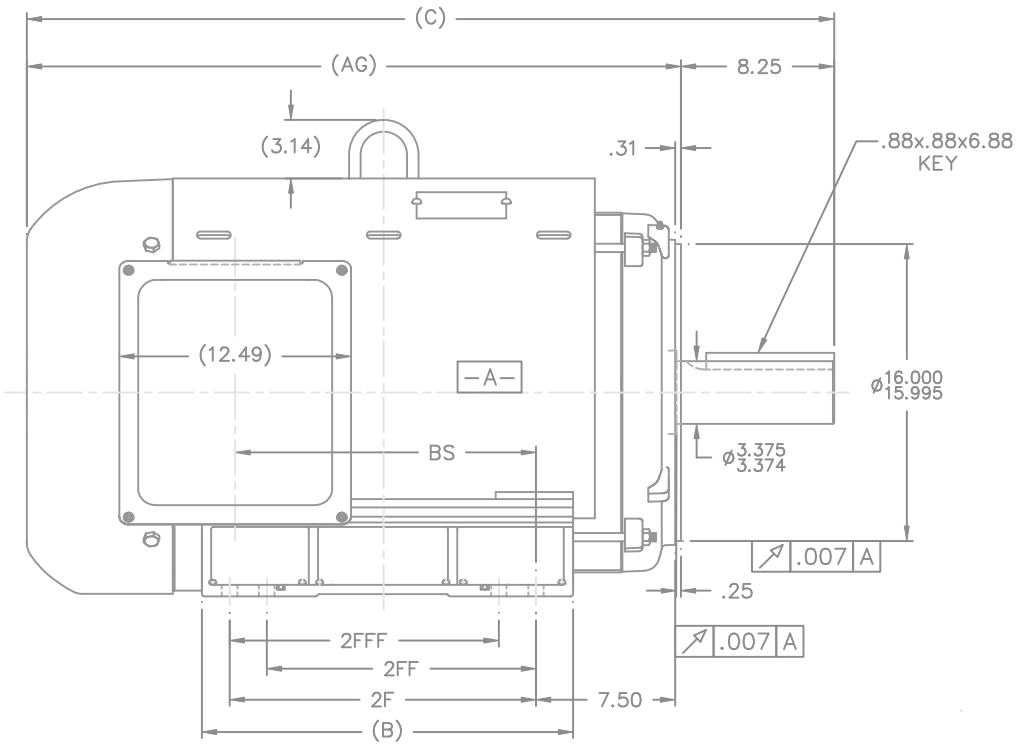
Model No: LM13737
Catalog No: LM13737
General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445TC Frame, TEFC

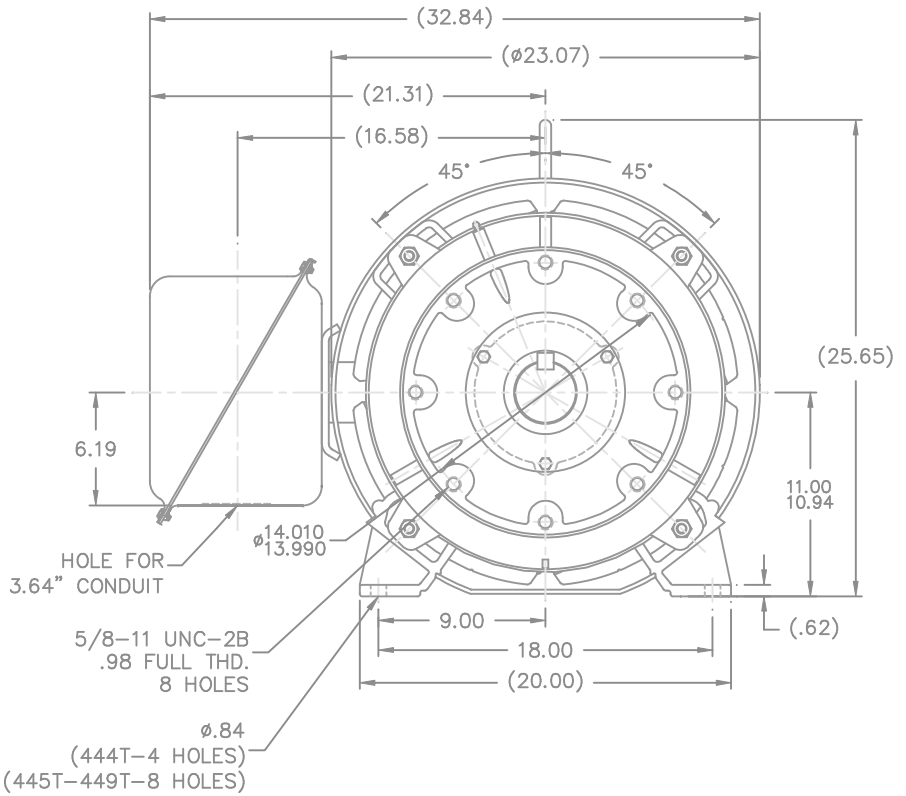
Nameplate Specifications

Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1788 & 1488 rpm	Service Factor	1.15 & 1.0
Frame	445TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	227 & 205 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6315
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

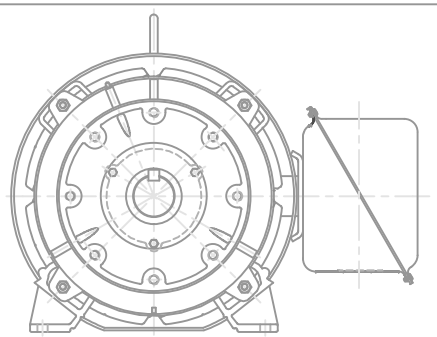
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0117 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	43.49 in
Frame Length	23.17 in	Shaft Diameter	3.375 in
Shaft Extension	8.25 in	Assembly/Box Mounting	F1 Only
Outline Drawing	XK2F1SC1-2317	Connection Drawing	A-EE7340-LN





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



F2 VIEW

DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS
2117	444T	41.49	33.24	18.00	14.50			14.20
2317	445T	43.49	35.24	20.00	16.50	14.50	14.50	16.20
2667	447T	46.99	38.74	23.50	20.00	16.50	16.50	19.70
3167	449T	51.99	43.74	28.50	25.00	20.00	20.00	23.95

NO.	REVISION	BY & DATE	CHK
3	REPLACED BLOWER SHROUD PER ISAAC 08–5529	MSG 01–08–2009	MSG
2	ø14.010/13.990 WAS ø13.518/13.498 CN 32990	DRS 02–17–2005	ML
1	NEW DRAWING	BJK 08–19–2002	HNH

TOLERANCES UNLESS SPECIFIED

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

Lincoln MOTORS

DRAWN BJK 08–13–2002
CHK ML 08–13–2002
APPD HNH 08–19–2002
SCALE 3=20
REF
FMF
PREV

TITLE OUTLINE NEMA MOTORS
440T TEFC UE DE C–FACE
MAT'L.
FINISH
CAD FILE xk2f1sc1
RFP
DIST BY

SIZE	DRAWING NO.	PAGE OF	REV.
B	XK2F1SC1		3

START

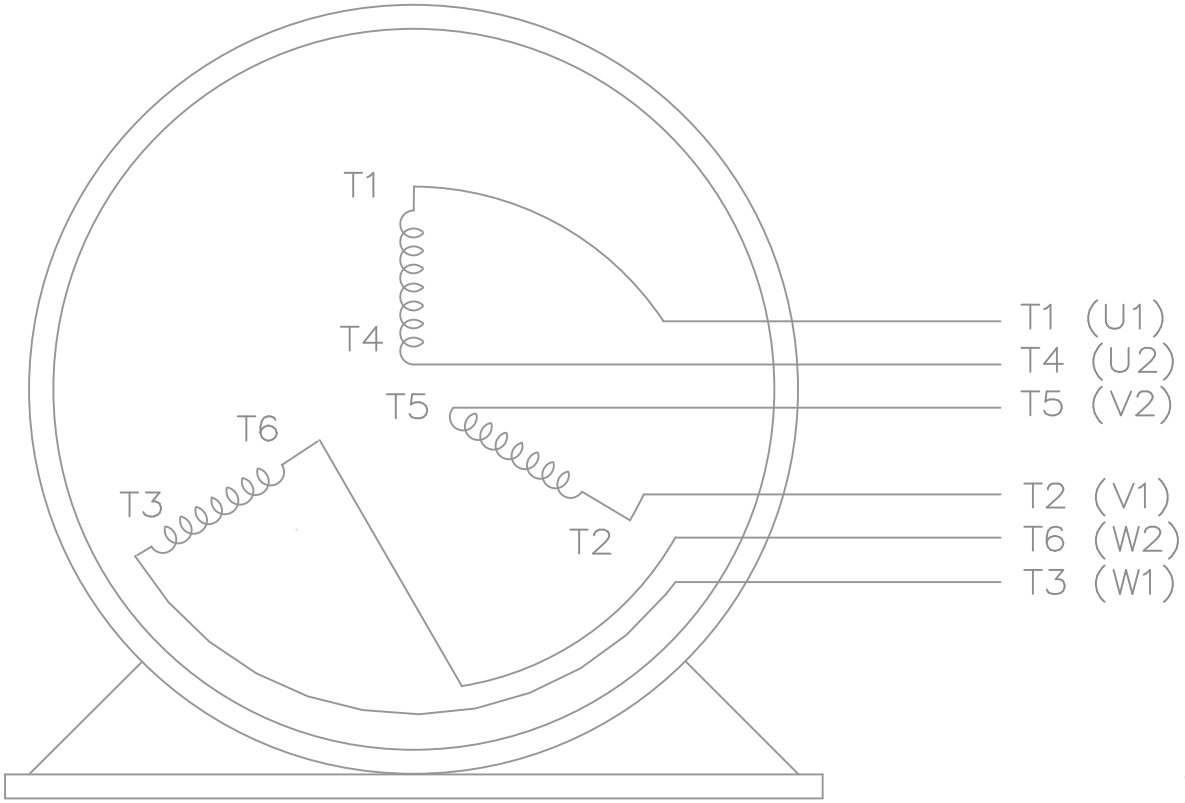
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

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

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN **CAT #:** LM13737
OUTLINE: XK2F1SC1-2317
WINDING: L4454005 NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1800	1788	445TC	TEFC	TFR	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	227&205	WYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	ELECT. TYPE
F.L. PF	86.0	3/4 LD PF	84.0	1/2 LD PF	77.0	95.4	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
587 LB-FT	1,450	1,400 LB-FT 239%	1,460 LB-FT 249%	60	

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
C-FACE	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
6318	6315						

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
0.01	0.006	0.084	0.11	2.604	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: 9/11/2018

Data Sheet

Date: 9/11/2018

LEESON

LM13737

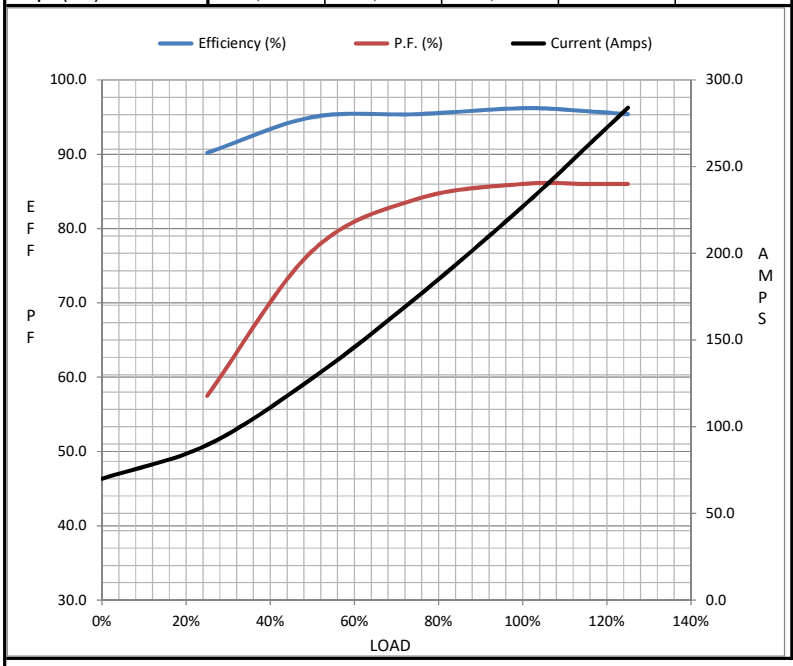
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	70.0	89.5	128	175	227	261	284	1,450	
Torque (ft-lb)	0.00	146	293	440	587	677	736	1,400	
RPM	1800	1797	1795	1790	1788	1,785	1783	0	
Efficiency (%)		90.2	95.0	95.4	96.2	95.8	95.4		
P.F. (%)	5.5	57.5	77.0	84.0	86.0	86.0	86.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1788	1800
Current (Amps)	1,450	1,300	800	227	70.0
Torque (ft-lb)	1,400	1,260	1,460	587	0.00



Information Block

HP	200.0	
Sync. RPM	1800	
Frame	445	
Enclosure	TEFC	
Construction	TFR	
Voltage	460#380	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	L4454005 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	XK2F1SC1-2317	
Conn. Diag	A-EE7340-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0100	0.0060	0.0840	0.1100	2.6040