PRODUCT INFORMATION PACKET

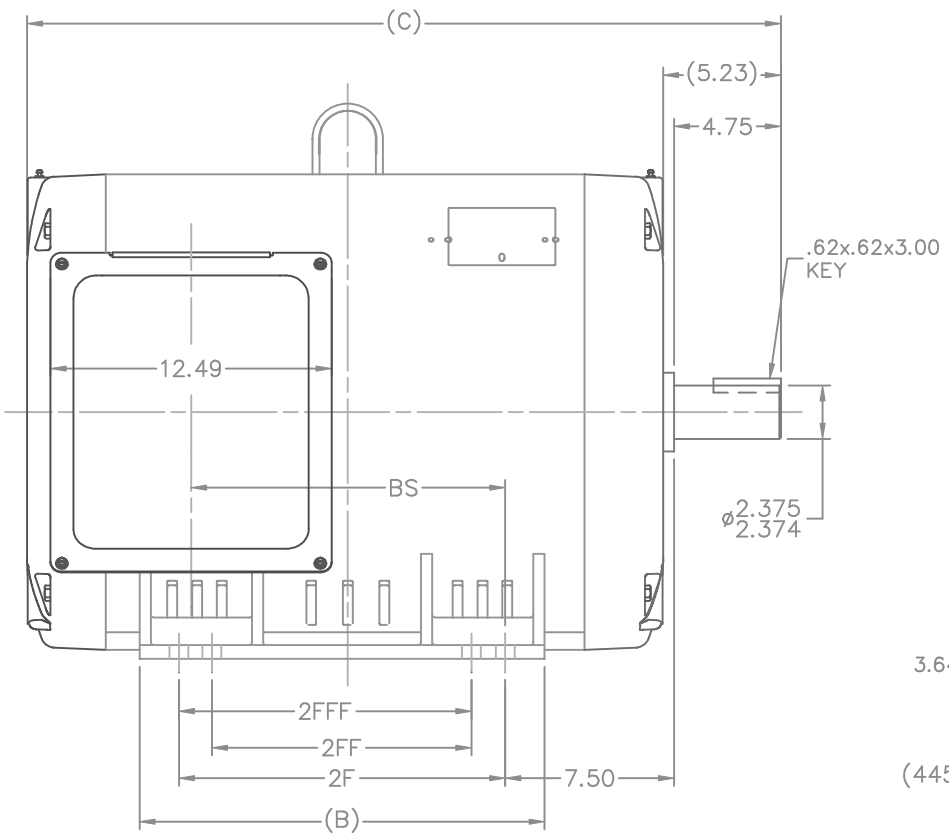
Model No: LM22759
Catalog No: LM22759
General Purpose Motor, 400 HP, 3 Ph, 60 Hz, 460 V, 1800 & 1800 RPM, 449TS Frame, DP

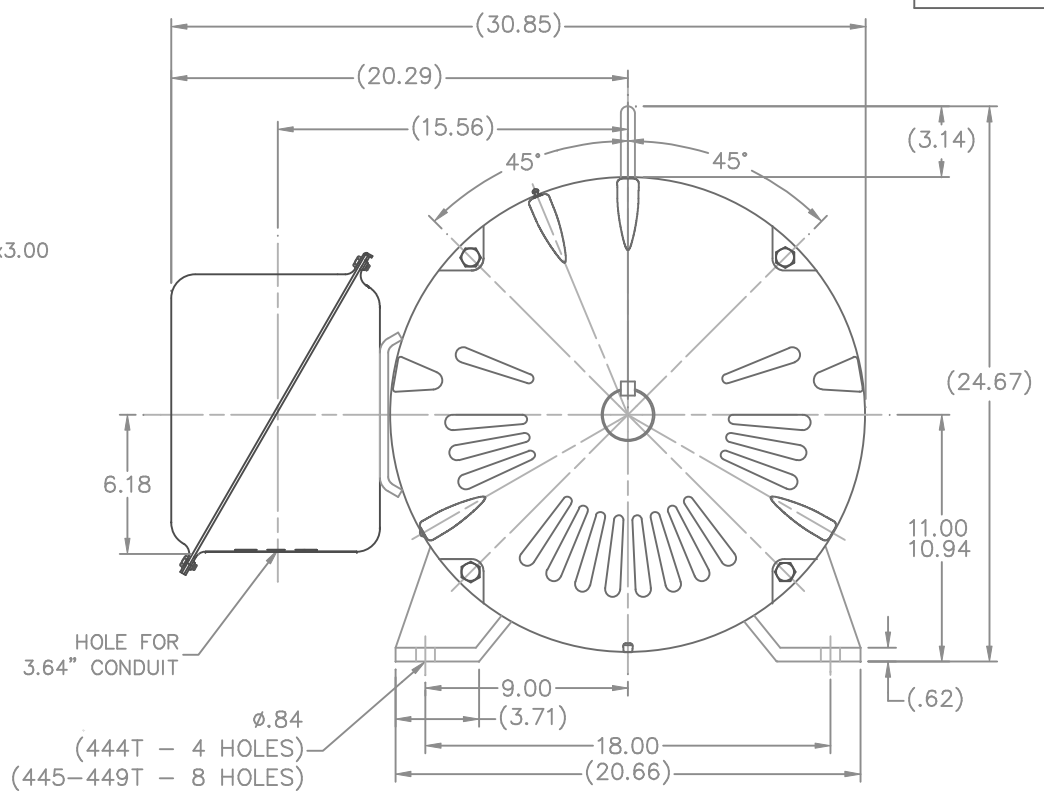
Nameplate Specifications

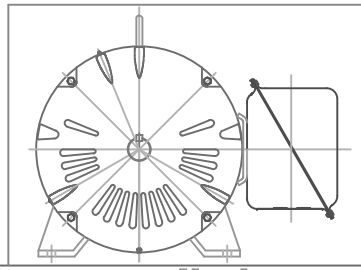
Phase	3	Output HP	400 Hp
Output KW	300.0 kW	Voltage	460 V
Speed	1785 rpm	Service Factor	1.0
Frame	449TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	96.2 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	445.0 A	Power Factor	87.5
Duty	Continuous	Insulation Class	F
Design Code	BC	KVA Code	G
Drive End Bearing Size	318	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.01 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	44.00 in
Frame Length	31.77 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2D1SS2-3177







F2 VIEW

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

DASH	FRAME	C	B	BS	2F	2FF	2FFF
2127	444TS	33.50	18.00	13.96	14.50		
2327	445TS	35.50	20.00	15.96	16.50	14.50	14.50
2677	447TS	39.00	23.50	19.46	20.00	16.50	16.50
3177	449TS	44.00	28.50	24.46	25.00	20.00	20.00

NO.	REVISION	BY & DATE	CHK
4	REVISED FROM 4 TO 4–8 HOLES PER CN 37556	CTO 12–17–2001	BB
3	ADDED DASHES 2677 & 3177 CN 29200–2314	CTO 03–22–03	HNH
2	ADDED DASH 2327 CN 29200–2238	NJS 02–22–02	DRS
1	NEW DRAWING – REPLACES 3XSD134FSSK–1 MU38160	TJB 08–30–01	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

RFP
DIST BY

Lincoln MOTORS

TITLE OUTLINE NEMA MOTORS
440TS OPD UE

CAD FILE xk2d1ss2

DRAWN	TJB 08–08–2001
CHK	ML 08–23–2001
APPD	HNH 08–30–2001
SCALE	1=5.5
REF	
MAT'L.	
FMF	
PREV	
FINISH	

SIZE B | DRAWING NO. XK2D1SS2 | REV. 4

START

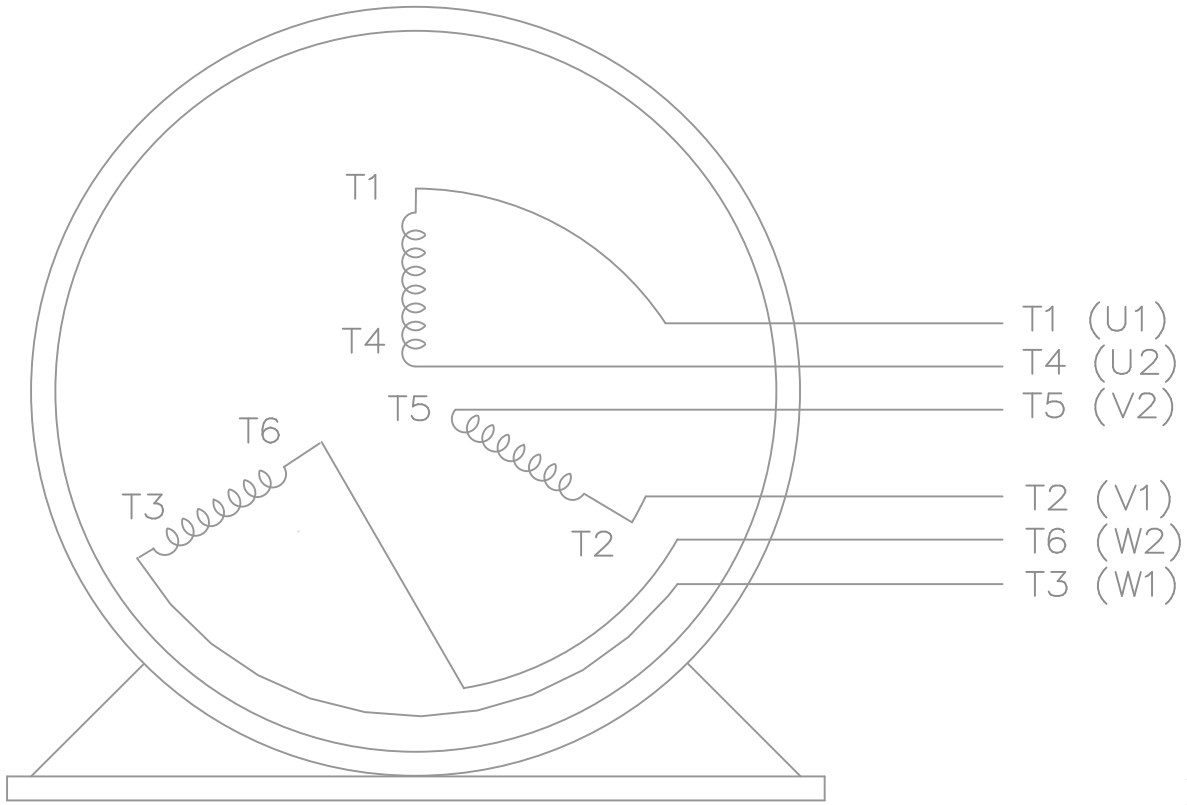
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

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 #:** LM22759
OUTLINE: XK2D1SS2-3177
WINDING: L4494037 NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
400	298	1800	1783	449TS	DP	TDR	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	460	WYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	96.2	1/2 LD EFF	96.5	GTD EFF	ELECT. TYPE
F.L. PF	85.0	3/4 LD PF	83.5	1/2 LD PF	79.0	95.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
1,178 LB-FT	2,825	2,775 LB-FT 236%	2,450 LB-FT 208%	100	

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 318	BALL 315	POLYREX EM	TS	NONE	NONE	1144 STRESSPROOF (C-223)	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
0.009	0.006	0.065	0.092	2.219	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: 9/10/2018

Data Sheet

Date: 9/10/2018

LEESON

LM22759

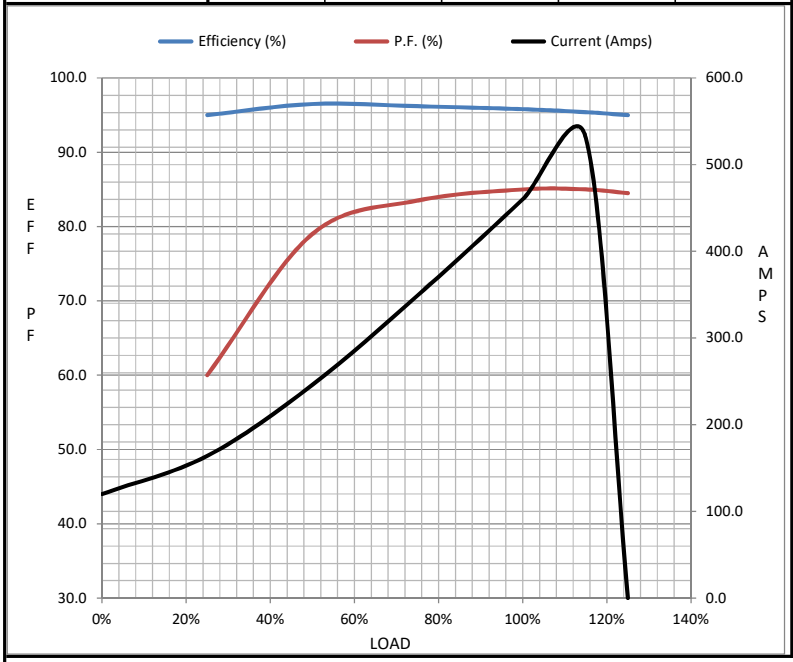
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	120	164	246	349	460	531	0.00	2,825	
Torque (ft-lb)	0.00	292	586	881	1,178	1,357	1,477	2,775	
RPM	1800	1795	1792	1788	1783	1,780	1778	0	
Efficiency (%)		95.0	96.5	96.2	95.8	95.4	95.0		
P.F. (%)	3.0	60.0	79.0	83.5	85.0	85.0	84.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1783	1800
Current (Amps)	2,825	2,550	1,835	460	120
Torque (ft-lb)	2,775	2,500	2,450	1,178	0.00



Information Block

HP	400.0	
Sync. RPM	1800	
Frame	449	
Enclosure	DP	
Construction	TDR	
Voltage	460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.0	
Temp Rise @ FL	100	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	L4494037 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	XK2D1SS2-3177	
Conn. Diag	A-EE7340-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0090	0.0060	0.0650	0.0920	2.2190

Speed -Torque Curve