PRODUCT INFORMATION PACKET

Model No: LM17956
Catalog No: LM17956
General Purpose Motor, 300 & 300 HP, 3 Ph, 60 & 50 Hz, 460 & 415 V, 1800 & 1500 RPM, 447/449T Frame, TEFC

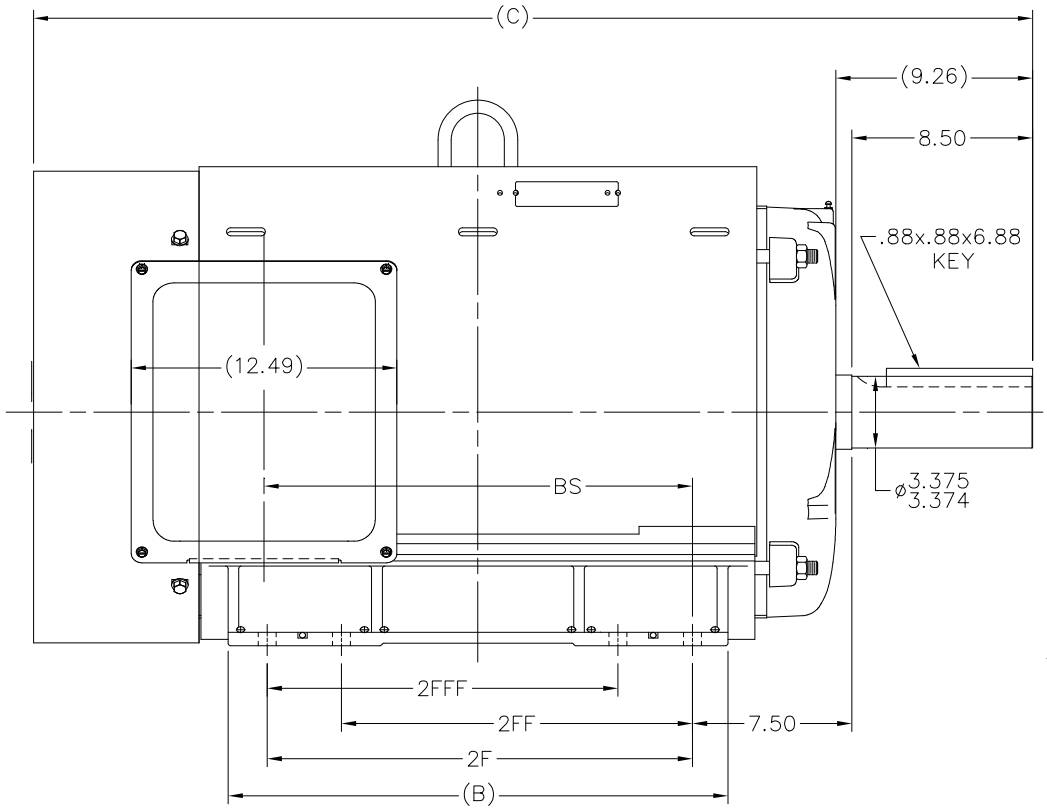
Nameplate Specifications

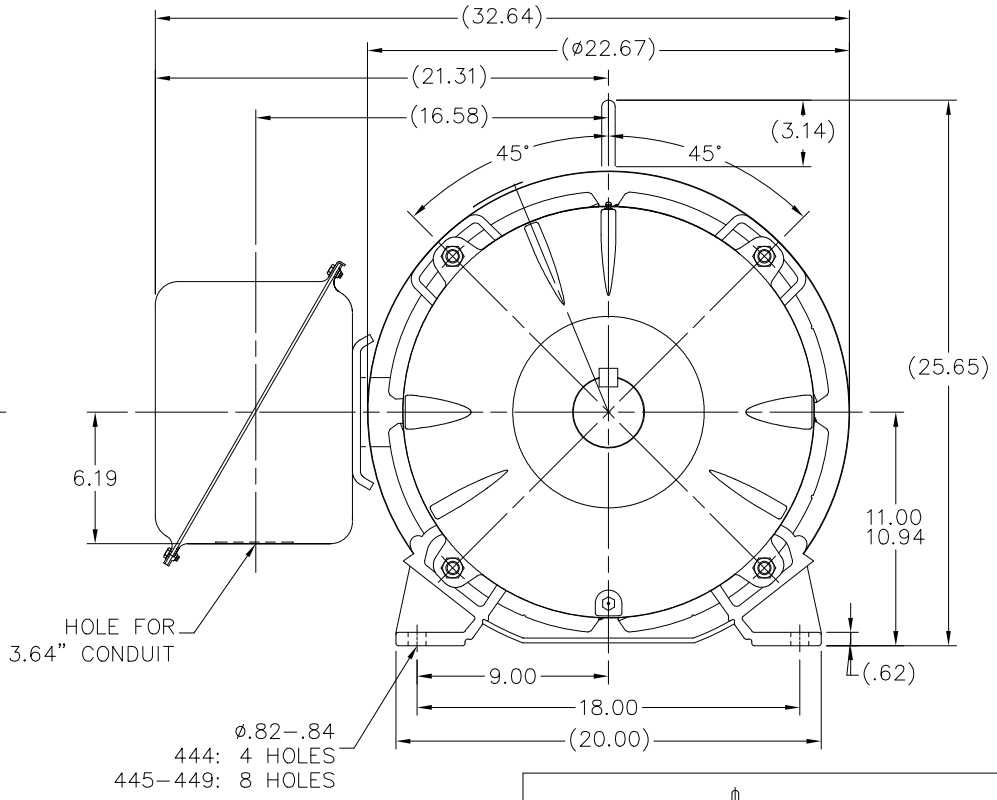
Phase	3	Output HP	300 & 300 Hp
Output KW	224.0 & 224.0 kW	Voltage	460 & 415 V
Speed	1787 & 1486 rpm	Service Factor	1.15 & 1.0
Frame	447/449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	337 & 377 A	Power Factor	87
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	43
Number of Speeds	1		

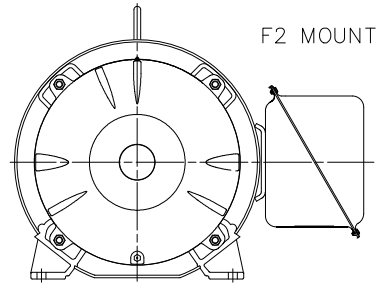
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.013 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	52.08 in
Frame Length	31.67 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2F1SS1-3167

XK2F1SS1







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

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
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS

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

RFP
DIST BY

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

SIZE	DRAWING NO.	PAGE OF	REV.
B	XK2F1SS1		8

START

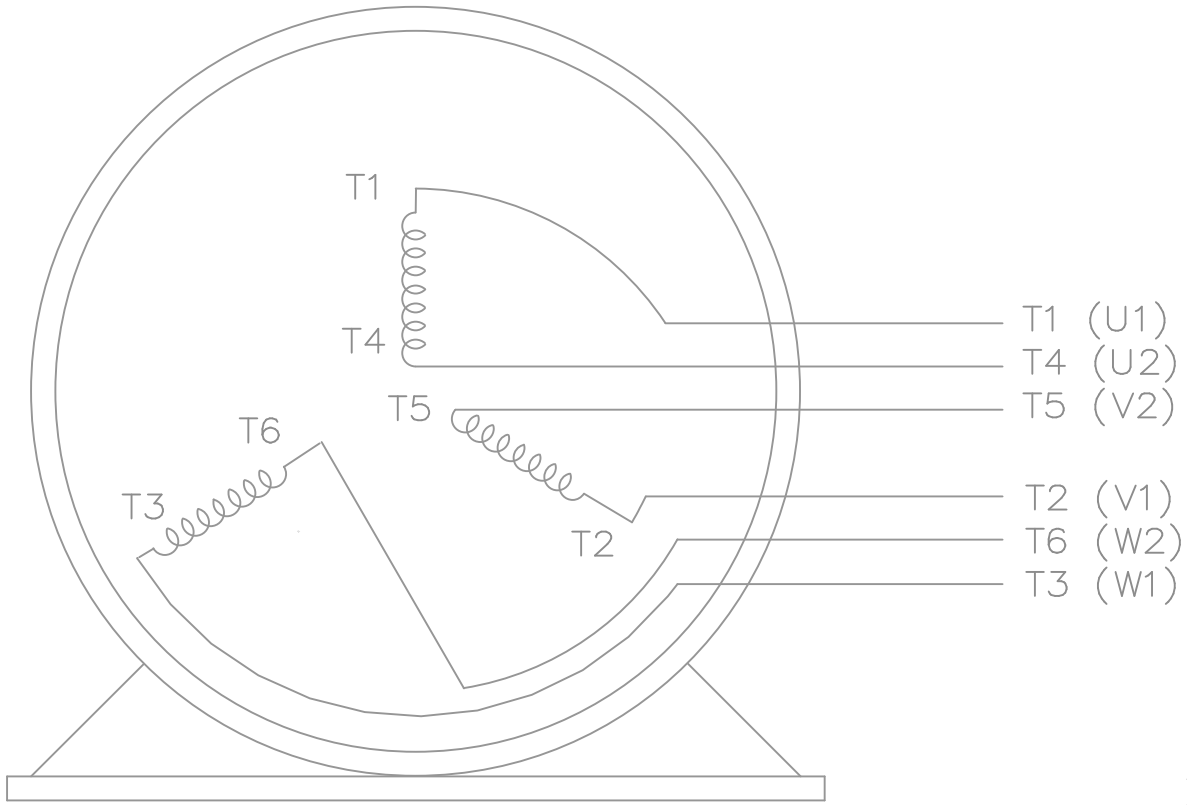
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

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

Data Sheet

Date: 2/1/2018

LEESON

LM17956

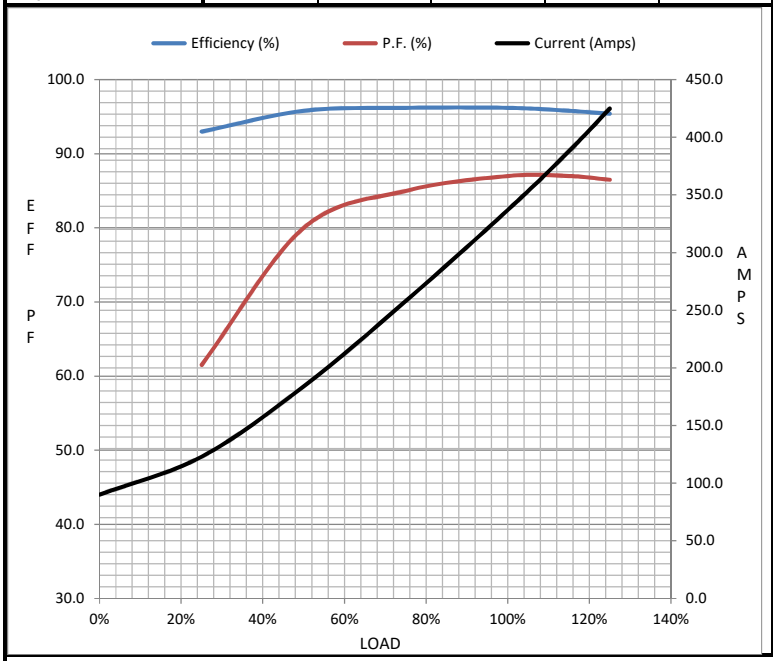
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	90.0	123	184	258	337	388	425	2,200	
Torque (ft-lb)	0.00	219	439	660	882	1,016	1,105	2,225	
RPM	1800	1797	1794	1791	1787	1,785	1783	0	
Efficiency (%)		93.0	95.8	96.2	96.2	95.8	95.4		
P.F. (%)	6.0	61.5	80.0	85.0	87.0	87.0	86.5	39.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1787	1800
Current (Amps)	2,200	2,000	1,140	337	90.0
Torque (ft-lb)	2,225	2,114	2,050	882	0.00



Information Block

HP	300.0	
Sync. RPM	1800	
Frame	449	
Enclosure	TEFC	
Construction	TFR	
Voltage	460#415	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	L4494043 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	XK2F1SS1-3167	
Conn. Diag	A-EE7340-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0100	0.0070	0.0820	0.1160	3.1370

Speed -Torque Curve