PRODUCT INFORMATION PACKET

Model No: LM14408
Catalog No: LM14408
40 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 324T Frame, TEFC
Special Voltage Motors

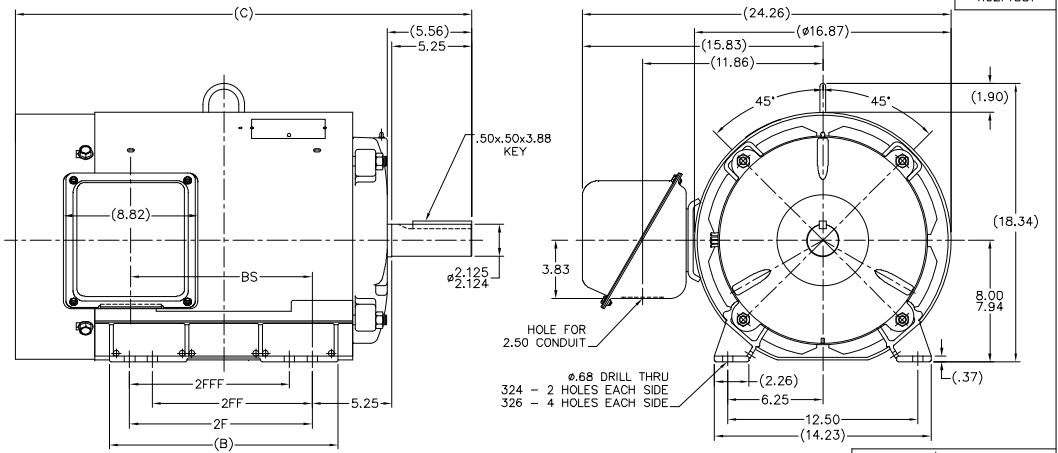
Nameplate Specifications

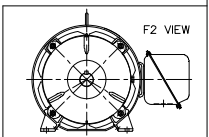
Output HP	**40 Hp**	Output KW	**30.0 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**40.5 A**	Speed	**1780 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**94.1 %**	Power Factor	**79.5**
Duty	**Continuous**	Insulation Class	**F**
Design Code	**B**	KVA Code	**F**
Frame	**324T**	Enclosure	**Totally Enclosed Fan Cooled**
Thermal Protection	**No**	Ambient Temperature	**40 °C**
Drive End Bearing Size	**6311**	Opp Drive End Bearing Size	**6309**
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	**.118 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	**28.50 in**
Frame Length	**16.12 in**	Shaft Diameter	**2.125 in**
Shaft Extension	**5.25 in**	Assembly/Box Mounting	**F1/F2 CAPABLE**
Outline Drawing	**XG2F1SS1-1550**	Connection Drawing	**A-EE7340-LN**

XG2F1SS1





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

DASH	FRAME	C	BS	B	2F	2FF	2FFF
1550	324T	28.50	10.62	13.52	10.50		
1700	326T	30.00	12.12	15.02	12.00	10.50	10.50

NO.	REVISION	BY & DATE	CHK
C	REPLACED 3C223-04 WITH 557965-CM ; CR-0001503	SP 04/07/202	AS
1	NEW DRAWING CN34267	MSG 09/24/01	

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

TITLE OUTLINE NEMA MOTORS 320T FR. – TEFC – UE

FINISH

MAT'L.

DRAWN MSG 09-17-2001
CHK ML 09-17-2001
APPD HNH 09-17-2001
SCALE .225=1
REF
FNF
PREV

RFP 09-24-2001 CAD FILE xg2f1ss1 DIST BY

SIZE B | DRAWING NO. XG2F1SS1 | PAGE OF | REV. C

START

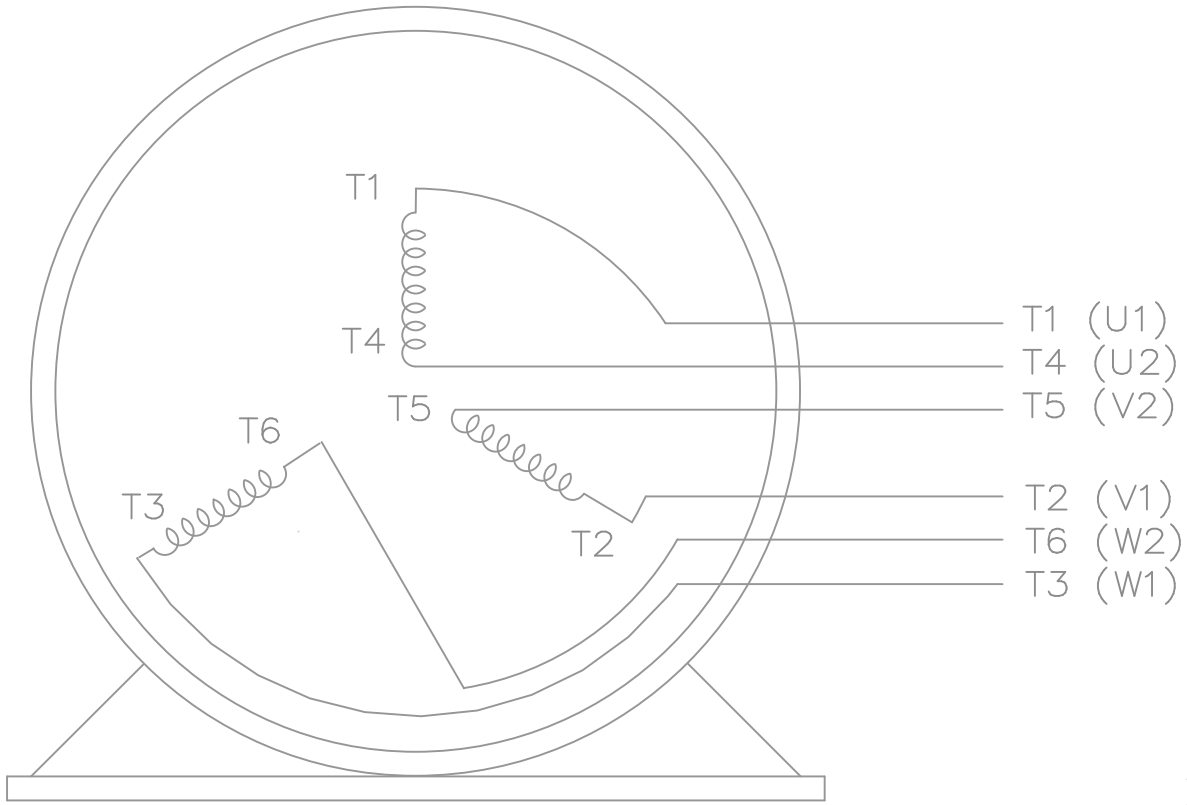
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

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 #:** LM14408
OUTLINE: XG2F1SS1-1550
WINDING: L3244043 NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1800	1780	324T	TEFC	TFR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	40.5	WYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.0	GTD EFF	ELECT. TYPE
F.L. PF	79.5	3/4 LD PF	75.0	1/2 LD PF	65.0	93.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
118 LB-FT	216	215 LB-FT 182%	250 LB-FT 212%	45	

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
6311	6309						

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
0.133	0.089	0.853	1.606	20.716	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: 9/4/2018

Data Sheet

Date: 9/4/2018

LEESON

LM14408

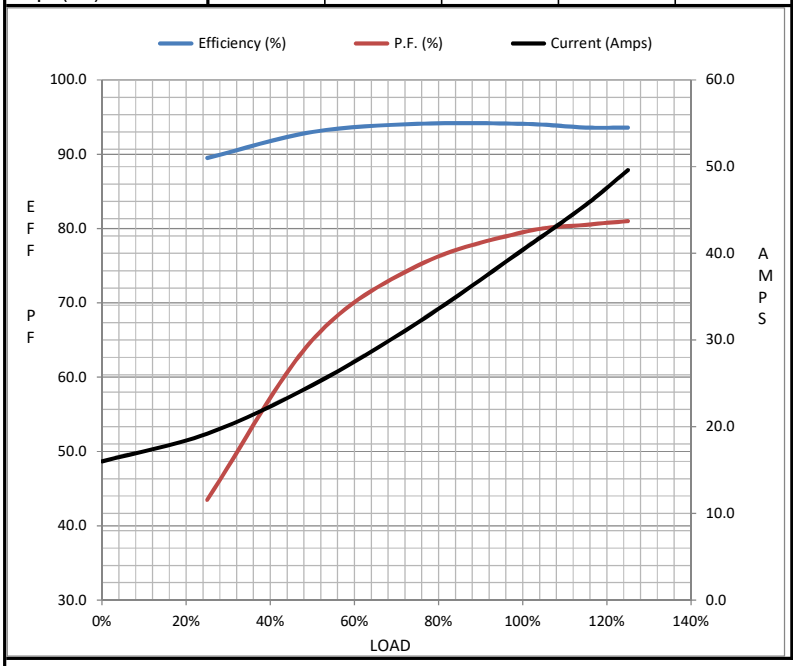
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.0	19.2	24.8	32.0	40.4	45.6	49.6	216	
Torque (ft-lb)	0.00	29.5	58.5	88.0	118	136	148	215	
RPM	1800	1795	1790	1785	1780	1,778	1775	0	
Efficiency (%)		89.5	93.0	94.1	94.1	93.6	93.6		
P.F. (%)	3.5	43.5	65.0	75.0	79.5	80.5	81.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1780	1800
Current (Amps)	216	194	118	40.4	16.0
Torque (ft-lb)	215	183	250	118	0.00



Information Block		
HP	40.0	
Sync. RPM	1800	
Frame	324	
Enclosure	TEFC	
Construction	TFR	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	L3244043 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	XG2F1SS1-1550	
Conn. Diag	A-EE7340-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1330	0.0890	0.8530	1.6060	20.7160

Speed -Torque Curve