

PRODUCT INFORMATION PACKET



Model No: LM14411
Catalog No: LM14411
50 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 326T Frame, TEFC
Special Voltage Motors



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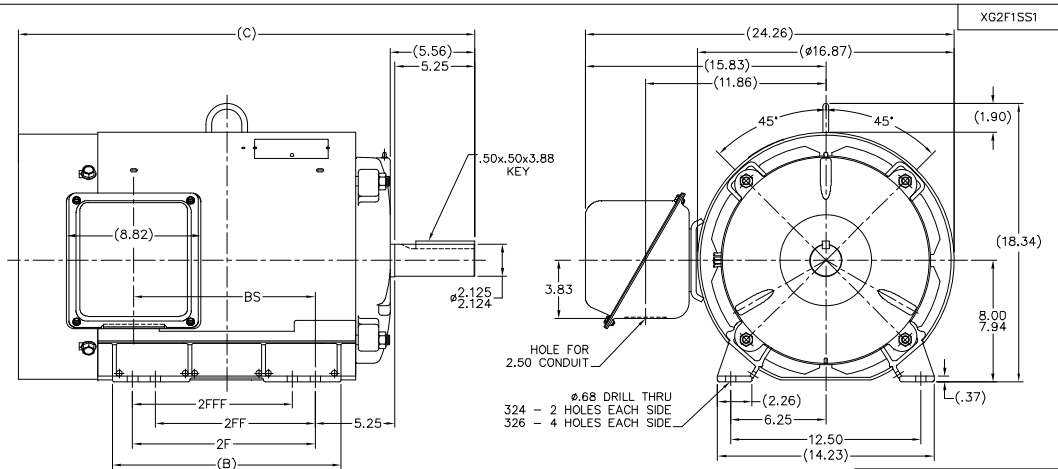
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	575 V
Current	51.0 A	Speed	1782 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	50 °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

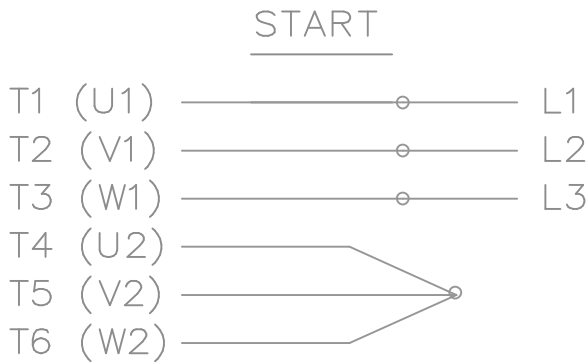
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.108 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	30.00 in
Frame Length	17.00 in	Shaft Diameter	2.125 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	XG2F1SS1-1700	Connection Drawing	A-EE7340-LN

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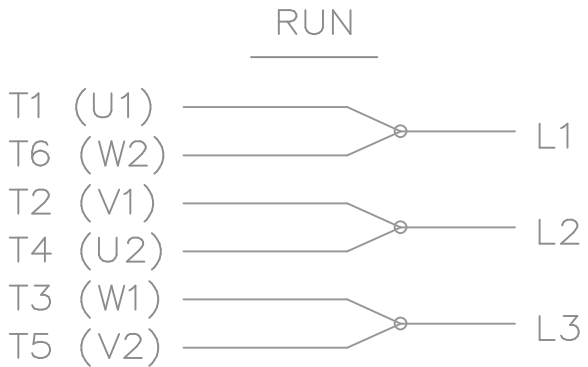
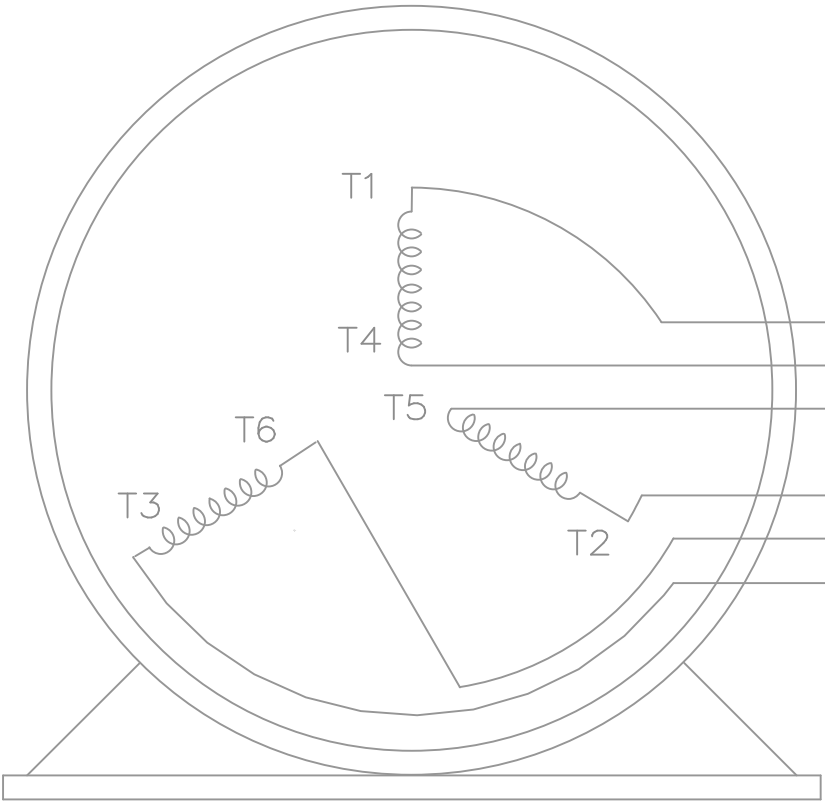


DASH	FRAME	C	BS	B	2F	2FF	2FFF
1550	324T	28.50	10.62	13.52	10.50		
1700	326T	30.00	12.12	15.02	12.00	10.50	10.50

		TOLERANCES UNLESS SPECIFIED						DRAWN MSG 09-17-2001	
		DEC. INCHES						CHK MK 09-17-2001	
		X 0.1						APPD HNH 09-17-2001	
		JXX 0.03				TITLE OUTLINE, NEMA MOTORS		SCALE 225=1	
		JXXX 0.005				320T FR. — TEFC — UE		REF	
		JXXXX 0.0005				MATH.		FMF	
		JXXXXX 0.00005				FINISH		PREV	
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THREE PHASE — Y START
 Δ RUN MOTOR



T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999				
				DEC.	INCHES		CHK DRS 10-04-1999				
				.X	±.1		APPD TB 10-04-1999				
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM 3ø – WYE START DELTA RUN	SCALE 1=1				
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005		REF				
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005		FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH			PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP		CAD FILE ee7340_In			SIZE	DRAWING NO.	PAGE OF	REV.
			DIST WA-LB-SB					A	EE7340-LN		3



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XG2F1SS1-1700
WINDING: L3264043

CAT #: LM14411

NONE 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
50	37	1800	1782	326T	TEFC	TFR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	51	VYE START DELTA RU	CONT	F	1.15	50	3300

F.L. EFF	94.5	3/4 LD EFF	94.5	1/2 LD EFF	94.1	GTD EFF	94.1	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	78.5	3/4 LD PF	73.5	1/2 LD PF	63.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
147 LB-FT	262	285 LB-FT 194%	310 LB-FT 211%	50

PRESSURE @ 3	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	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
BALL	BALL						
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
0.12	0.071	0.695	0.114	15.15	0.150	ODE

* N O T E S *			INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE NONE PPR

DATE: 1/23/2018	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE HZ:	
	UL: V-INS, CONST UL REC	

Data Sheet

Date: 1/23/2018

LM14411



Data @ 575 V

Motor Load Data

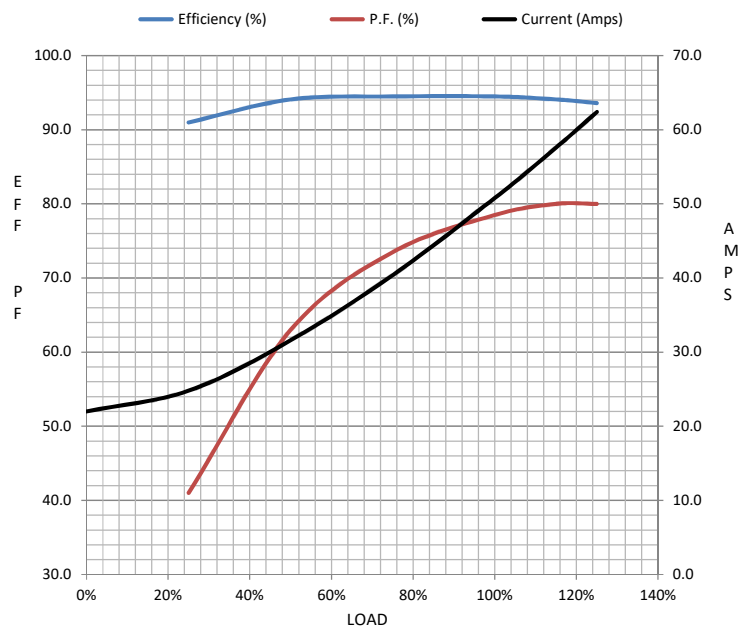
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	22.0	24.8	31.6	40.4	50.8	57.6	62.4	262	
Torque (ft-lb)	0.00	36.5	73.5	110	147	170	184	285	
RPM	1800	1795	1790	1787	1782	1,778	1775	0	
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6		
P.F. (%)	2.5	41.0	63.0	73.5	78.5	80.0	80.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1782	1800
Current (Amps)	262	236	148	50.8	22.0
Torque (ft-lb)	285	242	310	147	0.00

Information Block

HP	50.0			
Sync. RPM	1800			
Frame	326			
Enclosure	TEFC			
Construction	TFR			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	L3264043 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	YG2F1SS1-1700			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1200	0.0710	0.6950	0.1140	15.1500



Speed - Torque Curve

