# PRODUCT INFORMATION PACKET

Model No: LM21227 Catalog No: LM21227

Speed Ratio Motors, TEFC, 100 HP, 3 Ph, 60 Hz, 230/460 V, 1785 RPM, 405T Frame



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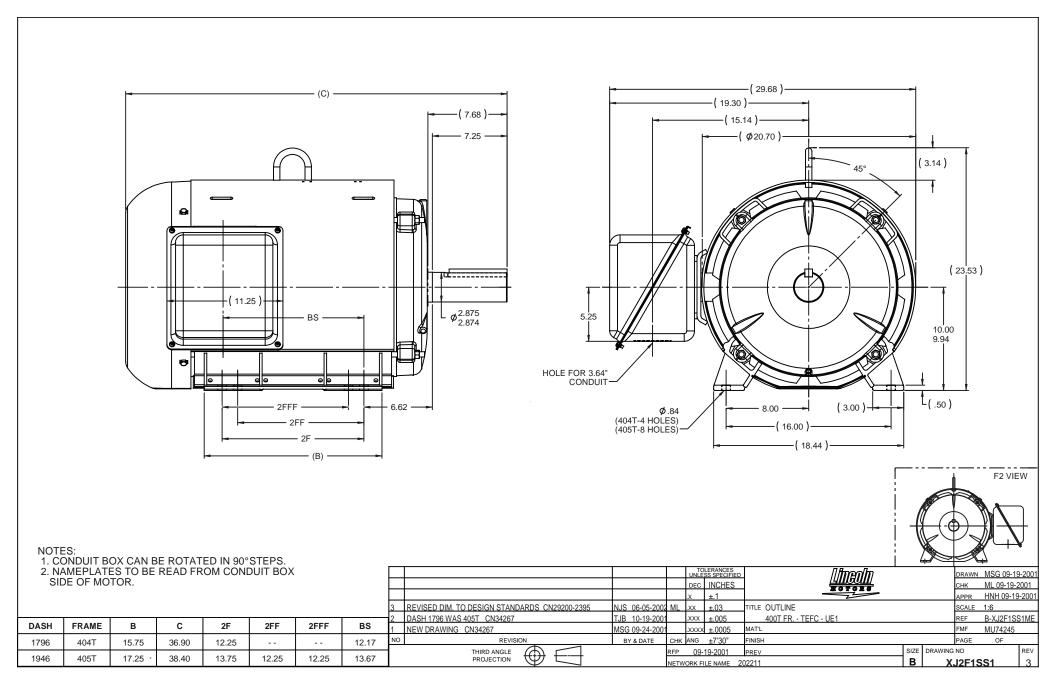
## Nameplate Specifications

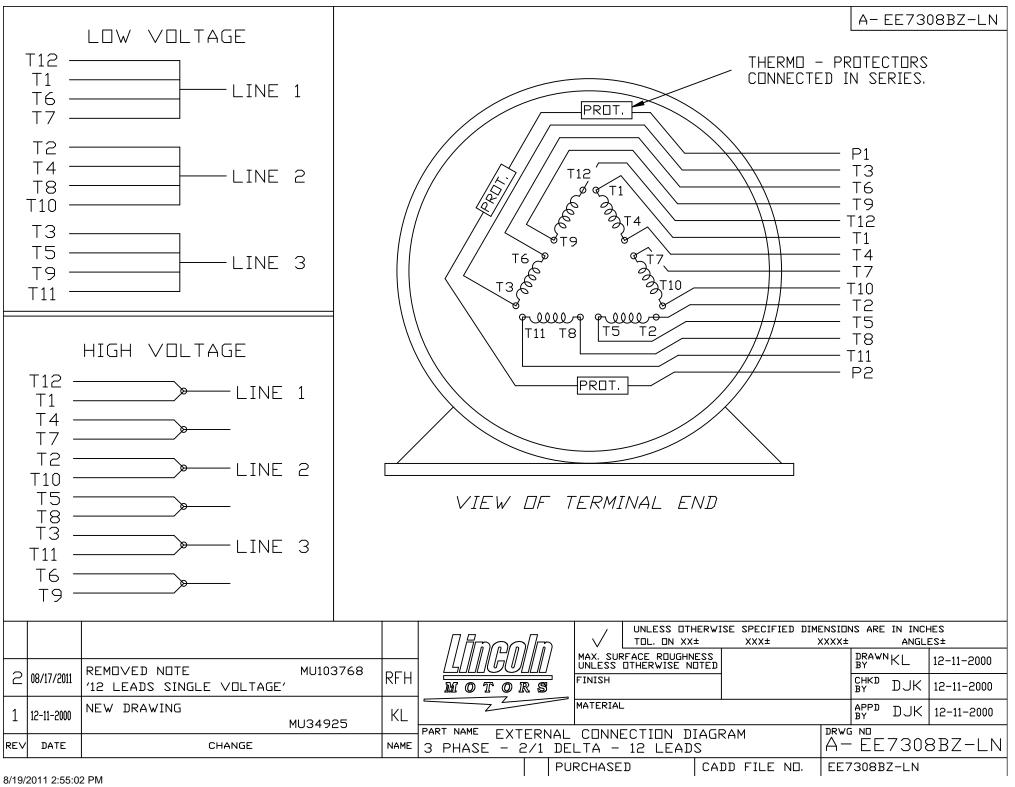
Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	240.0/120.0 A	Speed	1785 rpm
Service Factor	1 Phase		3
Efficiency	94.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	G
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	315	Opp Drive End Bearing Size	313
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.055 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Т	Overall Length	38.40 in
Frame Length	19.46 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308BZ-LN	Outline Drawing	XJ2F1SS1-1946

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#### **CERTIFICATION DATA SHEET**

# 2100 WASHINGTON ST. GRAFTON, WI PH. 262-277-8810

CONN. DIAGRAM: A-EE7308BZ-LN

**OUTLINE:** XJ2F1SS1-1946 CATALOG #: LM21227

WINDING #: C4054030 R1 1 MOUNTING: F1/F2 CAPABLE

#### **TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100	75.0	1800	1785	405T	TEFC	G	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	<b>AMB°C</b>
3	60	230/460	240/120	INVERTER ONLY	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	94.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	93	GTD, EFF	ELEC. TYPE
FULL LOAD PF:	83	3/4 LOAD PF:	77	1/2 LOAD PF:	68	93.6	SQ CAGE INV DUTY

F.L. TORQUE LOCKED ROTOR AMPS		L.I	R. TORQ	UE	ı	B.D. TORÇ	F.L. RISE°C	
294 <b>LB-FT</b>	1450 / 725	575	LB-FT	196 %	650	LB-FT	220 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	23 <b>LB-FT^2</b>	- LB-FT^2	- SEC.	-	- LBS.

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEAR	BEARINGS GREAS		CHAET TYPE	SHAFT TYPE   SPECIAL DE		SHAFT	FRAME	
DE	ODE	GREASE	SHAFI ITPE	SPECIAL DE   SPECIAL ODE		MATERIAL	MATERIAL	
BALL	BALL	DOLVDEV EM	_	NONE	NONE	1045 HOT DOLLED (C 204)	DOLLED STEEL	
315	313	POLYREX EM	l	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL	

	THERMICTORS	CONTROL	CDACE	IEATEDS.				
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE	SPACE HEATERS	
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS	

INVERTER TORQUE: CONSTANT 4:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED
ENCODER: NONE

 NONE
 NONE
 NONE
 PPR

 T
 BRAKE:
 NONE
 NONE

## BRAKE: NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

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