

PRODUCT INFORMATION PACKET



Model No: LM13940

Catalog No: LM13940

General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190-208/380-415 V, 1800 & 1500 RPM,
405T Frame, TEFC



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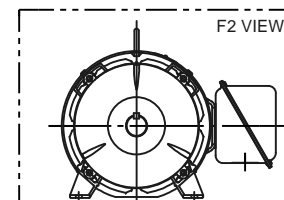
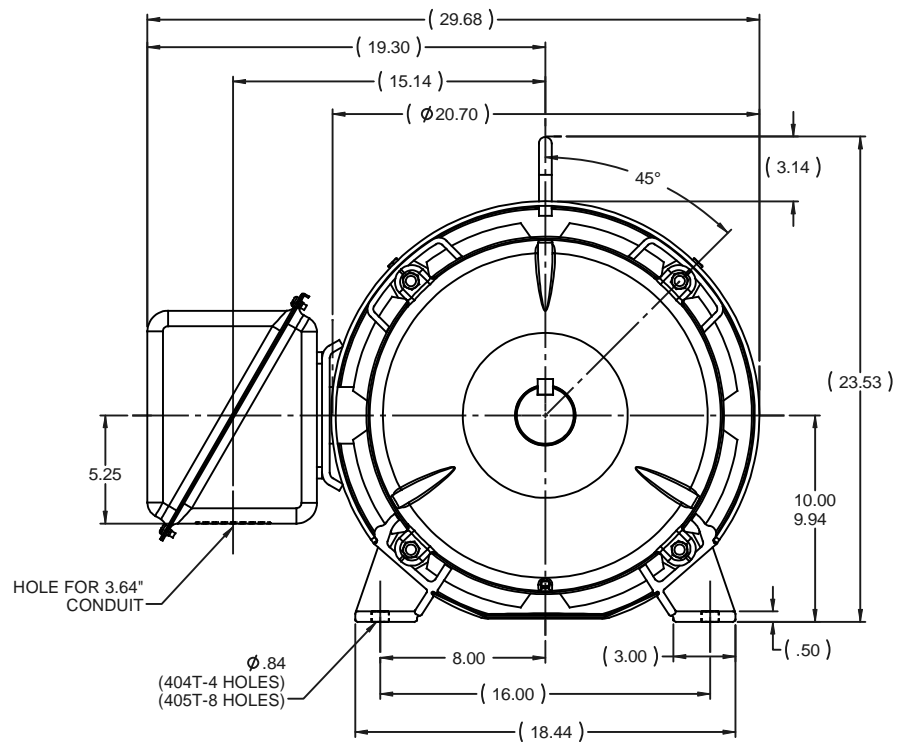
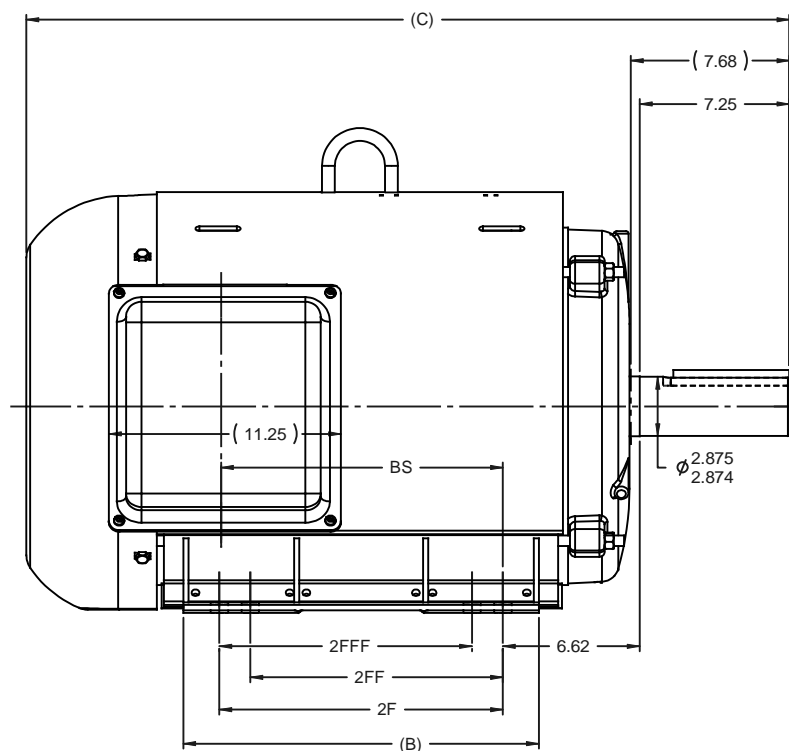


Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190-208/380-415 V
Speed	1783 & 1484 rpm	Service Factor	1.15 & 1.15
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	236/118 & 216-212/108-106 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	BC	KVA Code	G
Drive End Bearing Size	6315	Opp Drive End Bearing Size	6313
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	.049 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	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-EE7308AA-LN	Outline Drawing	XJ2F1SS1-1946



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

DASH	FRAME	B	C	2F	2FF	2FFF	BS
1796	404T	15.75	36.90	12.25	--	--	12.17
1946	405T	17.25	38.40	13.75	12.25	12.25	13.67

				TOLERANCES UNLESS SPECIFIED		Lincoln Motors			
				DEC	INCHES				
				X	±.1				
3	REVISED DIM. TO DESIGN STANDARDS CN29200-2395	NJS	06-05-2002	ML	XX	±.03	TITLE		OUTLINE
2	DASH 1796 WAS 405T CN34267	TJB	10-19-2001	XXX	±.005		400T FR. - TEFC - UE1		
1	NEW DRAWING CN34267	MSG	09-24-2001	XXX	±.0005	MATL			
NO	REVISION	BY & DATE		CHK	ANG	±7'30"	FINISH	PAGE	
	THIRD ANGLE PROJECTION			RFP	09-19-2001	PREV		SIZE	DRAWING NO
				NETWORK FILE NAME 202211				B	XJ2F1SS1
								REV	3

T12 _____
 T1 _____
 T6 _____ L1
 T7 _____

T2 _____
 T4 _____
 T8 _____ L2
 T10 _____

T3 _____
 T5 _____
 T9 _____ L3
 T11 _____

LOW VOLTAGE

T12 _____ L1
 T1 _____
 T4 _____
 T7 _____
 T2 _____
 T10 _____ L2

T5 _____
 T8 _____
 T3 _____ L3
 T11 _____

T6 _____
 T9 _____

HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7°30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999
1	06-18-1999	NEW DRAWING	TRB		FINISH		CHKD BY ML 06-18-1999
					MATERIAL		APPD BY GK 06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN
					PURCHASED	CADD FILE NO.	EE7308AALN

ERROR: undefined
OFFENDING COMMAND: Pscrip
STACK:



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

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: XJ2F1SS1-1946

CATALOG #: LM13940

WINDING #: L4054044 3

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75.0&56.0	1800	1783&1484	405T	TEFC	G	BC

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB° C
3	60/50	230/460&190-208/380-415	236/118&216-212/108-106	WYE START DELTA RUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95.4&95	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	95	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	83&82.5	3/4 LOAD PF:	79	1/2 LOAD PF:	69.5	94.1		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	600 LB-FT 204 %	700 LB-FT 238 %	65

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6315	6313						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB NONE V NONE Hz

Data Sheet

Date: 1/19/2018

LM13940



Data @ 460 V

Motor Load Data

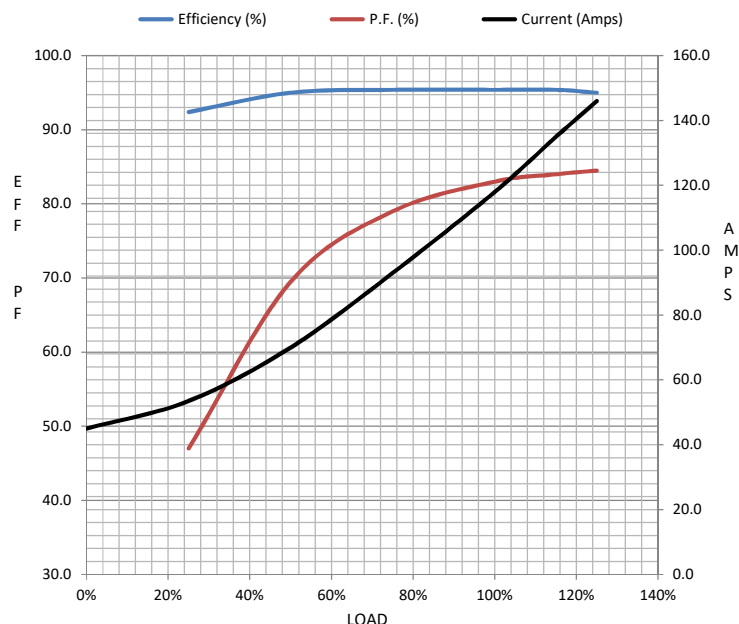
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	45.0	53.5	70.0	93.0	118	135	146	725	
Torque (ft-lb)	0.00	73.0	147	220	294	339	369	600	
RPM	1800	1795	1792	1788	1783	1,780	1778	0	
Efficiency (%)		92.4	95.0	95.4	95.4	95.4	95.0		
P.F. (%)	2.5	47.0	69.5	79.0	83.0	84.0	84.5	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1783	1800
Current (Amps)	725	675	400	118	45.0
Torque (ft-lb)	600	510	700	294	0.00

Information Block

HP	100.0			
Sync. RPM	1800			
Frame	405			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190-208/380-415 V			
Frequency	60 Hz			
Design	B			
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	23.0 Lb-Ft²			
Ref Wdg	L4054044 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	XJ2F1SS1-1946			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0370	0.0230	0.2390	0.2560	5.7940



Speed - Torque Curve

