

PRODUCT INFORMATION PACKET



Model No: LM13838

Catalog No: LM13838

General Purpose Motor, 50 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 380-415 V, 3600 & 3000 RPM,
324TSC Frame, DP



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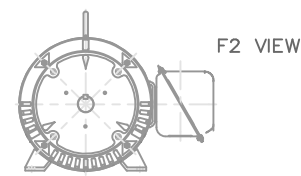
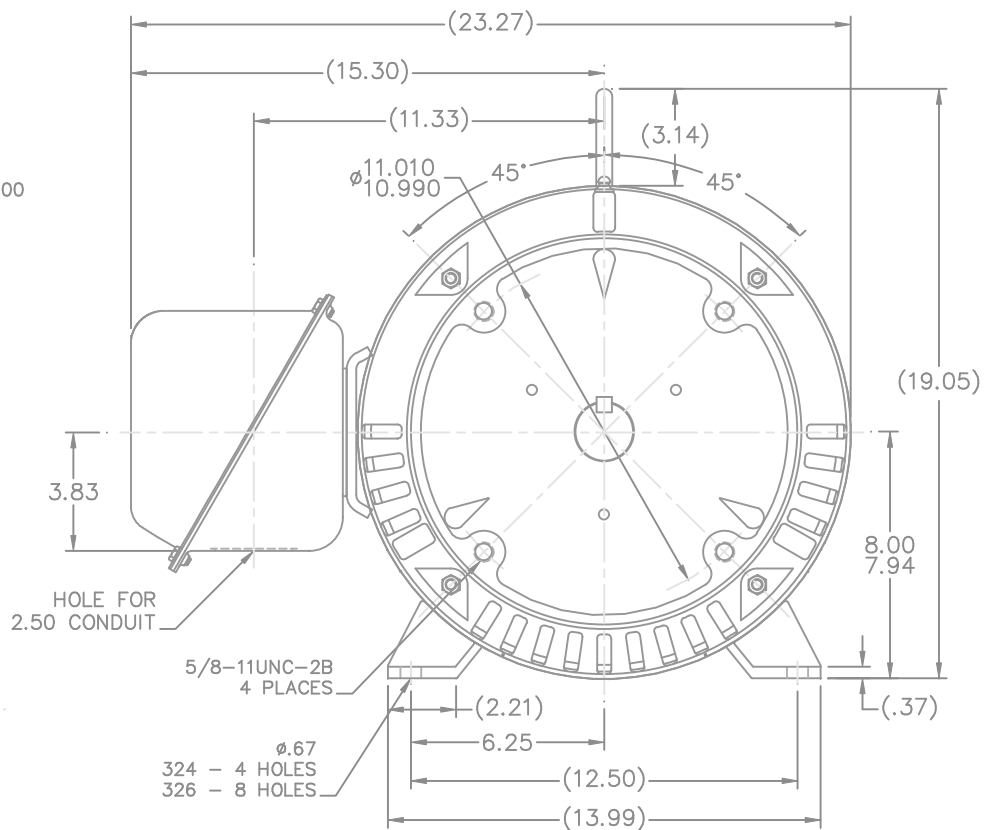
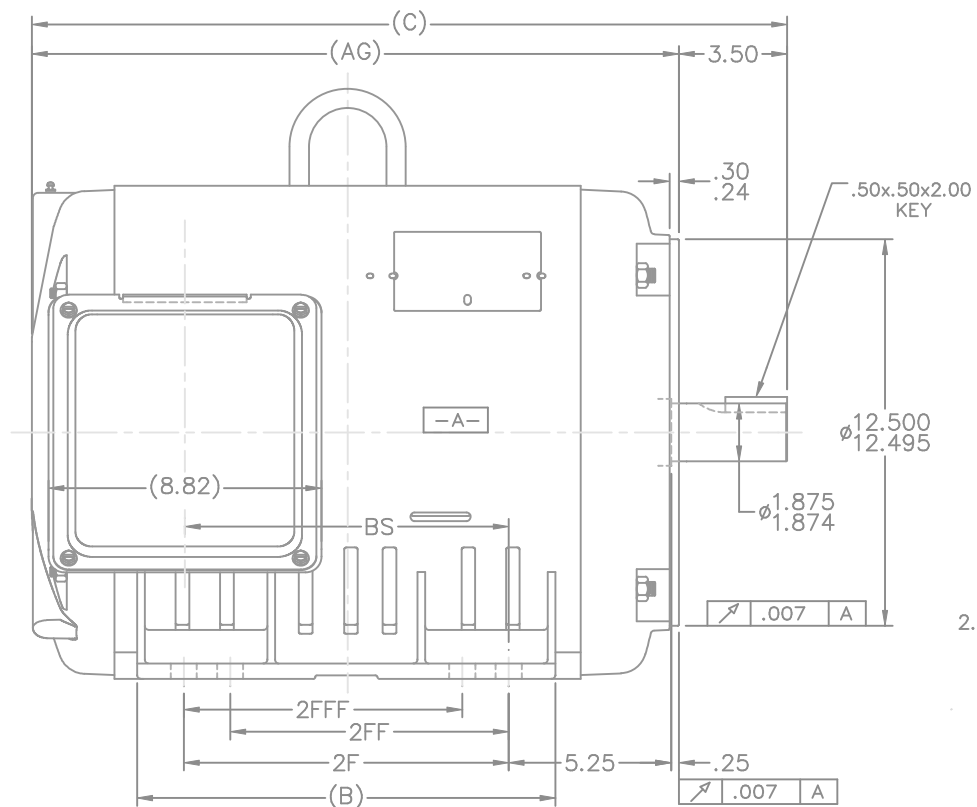


Nameplate Specifications

Phase	3	Output HP	50 & 50 Hp
Output KW	37.3 & 37.3 kW	Voltage	230/460 & 380-415 V
Speed	3550 & 2940 rpm	Service Factor	1.25 & 1.15
Frame	324TSC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.1 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	110/55 & 67-61 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	311	Opp Drive End Bearing Size	309
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.138 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	24.41 in
Frame Length	15.07 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308AA-LN	Outline Drawing	XG2D1SC2-1507



NOTES:

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

DASH	FRAME	C	AG	BS	B	2F	2FF	2FFF
1507	324TS	24.41	20.91	10.46	13.52	10.50		
1657	326TS	25.91	22.41	11.96	15.02	12.00	10.50	10.50

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTORS		DRAWN CTO 03-26-2002	
		DEC.	INCHES			CHK	ML 04-01-2002
		.X	±.1			APPD	HNH 04-01-2002
		.XX	±.03	TITLE OUTLINE		SCALE 1=4	
		.XXX	±.005	320TS FR. - ODP UE - C'FACE		REF	
		HNH	.XXXX ±.0005	MAT'L		FMF	
		CHK	ANG ±7'30"	FINISH		PREV	
		RFP		CAD FILE xg2d1sc2		SIZE	DRAWING NO. PAGE OF REV.
		DIST	BY			B	XG2D1SC2 2

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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:



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308AA-LN

CATALOG #: LM13838

OUTLINE: XG2D1SC2-1507

WINDING #: L3242006 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&50	37.3&37.3	3600	3550&2940	324TSC	DP	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&380-415	110/55&67-61	WYE START DELTA RUN	CONTINUOUS	F1	1.25/1.15	40

FULL LOAD EFF:	94.1&93	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	90.5&91	3/4 LOAD PF:	89.5	1/2 LOAD PF:	85	93		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	724 / 362	140 LB-FT 189 %	200 LB-FT 270 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
82 dBA	92 dBA	4.5 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
C-FACE	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						
311	309	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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 V NONE Hz

Data Sheet

Date: 1/29/2018

LM13838



Data @ 460 V

Motor Load Data

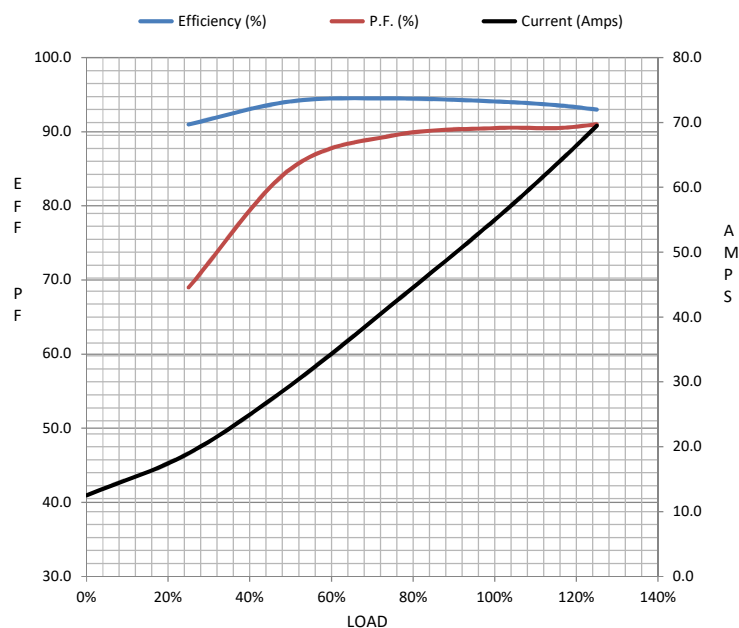
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.5	19.0	29.5	42.0	55.0	63.5	69.5	362	
Torque (ft-lb)	0.00	18.5	36.5	55.0	74.0	85.0	92.5	140	
RPM	3600	3585	3575	3565	3550	3,545	3540	0	
Efficiency (%)		91.0	94.1	94.5	94.1	93.6	93.0		
P.F. (%)	7.0	69.0	85.0	89.5	90.5	90.5	91.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3300	3550	3600
Current (Amps)	362	325	235	55.0	12.5
Torque (ft-lb)	140	130	200	74.0	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	324			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#380-415 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	4.5 Lb-Ft²			
Ref Wdg	L3242006 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	NONE			
Outline Dwg	XG2D1SC2-1507			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0960	0.0620	0.5330	0.4030	20.9220



Speed - Torque Curve

