

PRODUCT INFORMATION PACKET



Model No: LM24222

Catalog No: LM24222

General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190-208/380-415 V, 1800 & 1500 RPM,
182T Frame, DP



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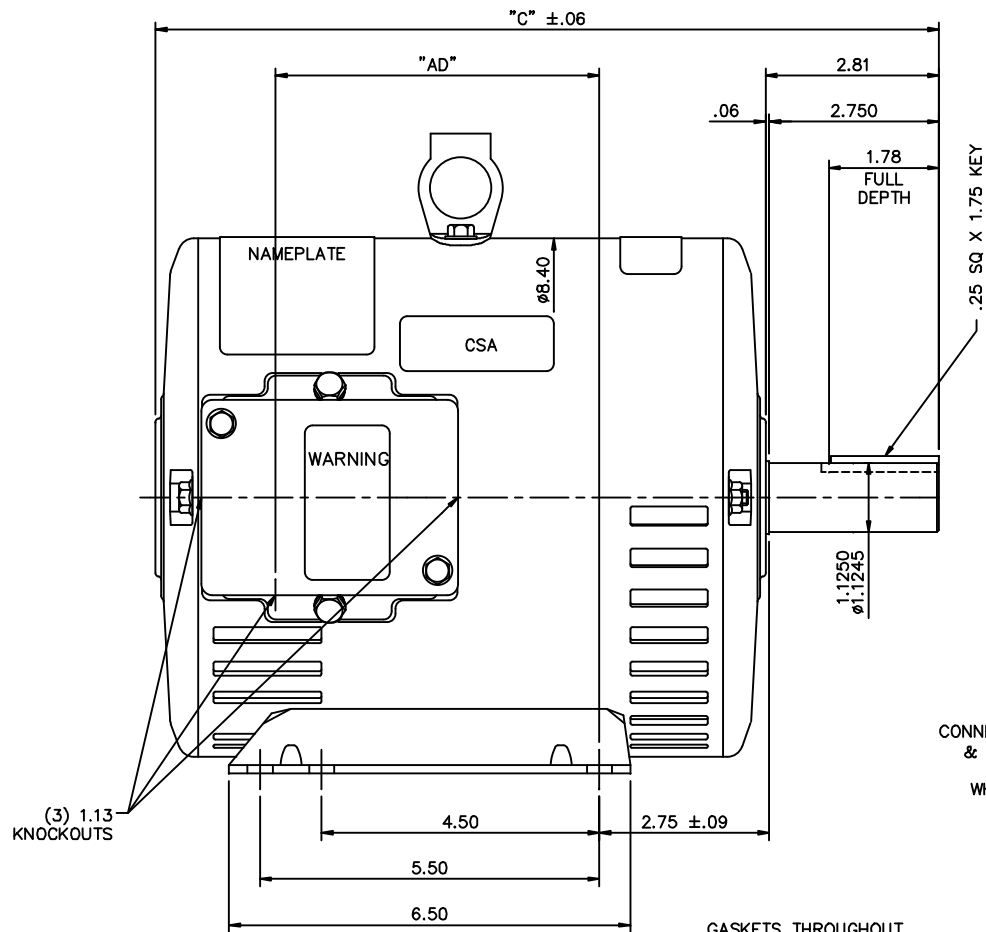


Nameplate Specifications

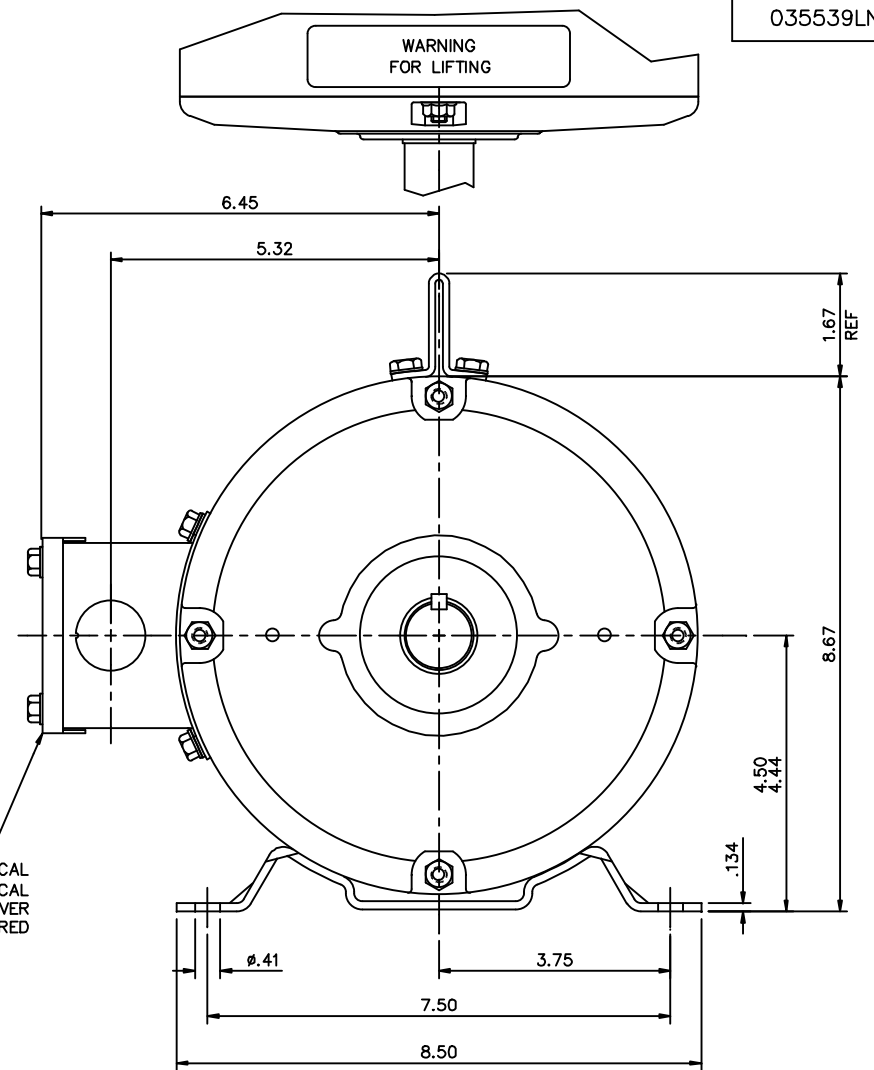
Phase	3	Output HP	3 & 3 Hp
Output KW	2.2 & 2.2 kW	Voltage	230/460 & 190-208/380-415 V
Speed	1770 & 1470 rpm	Service Factor	1.25 & 1.15
Frame	182T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	89.5 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8/4 & 9.4-8.6/4.7-4.3 A	Power Factor	79.3
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	3.89 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	13.19 in
Frame Length	9.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.01LN	Outline Drawing	035539LN-900



CONNECTION DECAL
& T'STAT DECAL
UNDER COVER
WHEN REQUIRED

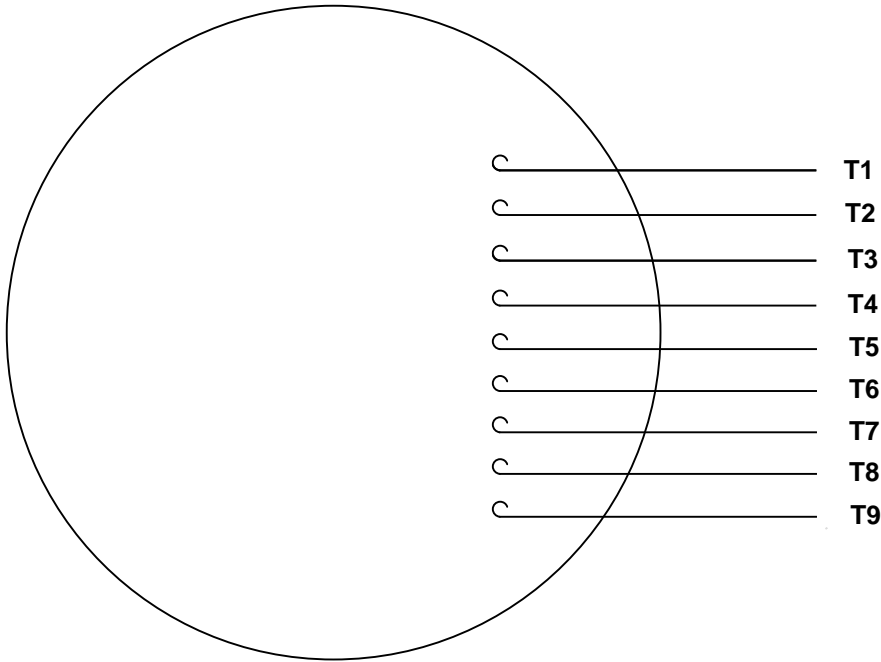


GASKETS THROUGHOUT

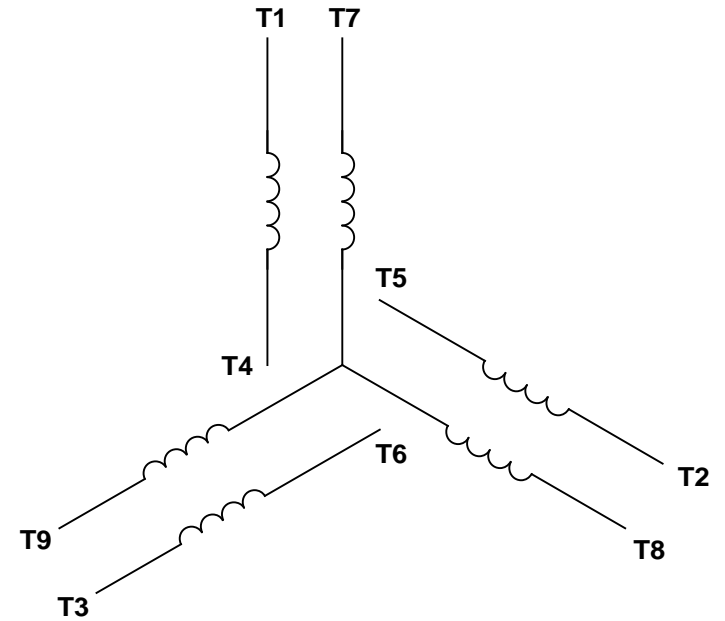
DASH NO.	"C"	"AD"
850	12.69	5.25
900	13.19	5.75
950	13.69	6.25
1000	14.19	6.75
1050	14.69	7.25
1100	15.19	7.75
1150	15.69	8.25

			TOLERANCES UNLESS SPECIFIED		Lincoln Motors	DRAWN JD 06/23/2011	
			DEC.	INCHES		CHK	
			.X	$\pm .1$		APPD	
			.XX	$\pm .03$	TITLE	SCALE	1-2
			.XXX	$\pm .005$	OUTLINE - 180T FRAME DRIP PROOF - RIGID		
			.XXXX	$\pm .0005$	MAT'L	GENERAL PURPOSE	REF 035539
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	FMF	LM33059
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	035539LN
					DIST	SIZE	DRAWING NO.
						B	035539LN
							REV.

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.


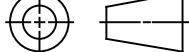


LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4, T7) (T5, T8) (T6, T9)
LOW	T1, T7	T2, T8	T3, T9	T4, T5, T6

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				TOLERANCES UNLESS SPECIFIED			DRAWN KMM 04/16/02				
				DEC	INCHES		CHK				
				.X	±.1		APPR				
				.XX	±.01		SCALE 1:1				
				.XXX	±.005		REF FIG. 2-51				
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXXX	±.0005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			FMF		
NO	REVISION		BY & DATE	CHK	ANG ±1/2°	FINISH			PAGE OF		
<div>THIRD ANGLE PROJECTION</div> 				RFP 04/12/02		PREV		SIZE	DRAWING NO		REV
				NETWORK FILE NAME 00501001 N				A	005010-01 N		--



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: 005010.01LN

OUTLINE: 035539LN-900

CATALOG #: LM24222

WINDING #: T84173 DR 3 C

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3	2.24&2.24	1800	1770&1470	182T	DP	K	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190-208/380-415	8/4&9.4-8.6/4.7-4.3	ACROSS THE LINE	CONTINUOUS	F4	1.25/1.15	40

FULL LOAD EFF:	89.5&89.5	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	88.2	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	79.3&76	3/4 LOAD PF:	71.9	1/2 LOAD PF:	59.7	87.5		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	68.4 / 34.2	21 LB-FT 233 %	36.4 LB-FT 404 %	31

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
51 dBA	61 dBA	0.357 LB-FT^2	55 LB-FT^2	15 SEC.	2	0 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						
6206	6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	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	NONE V NONE Hz

Data Sheet

Date: 1/18/2018

LM24222



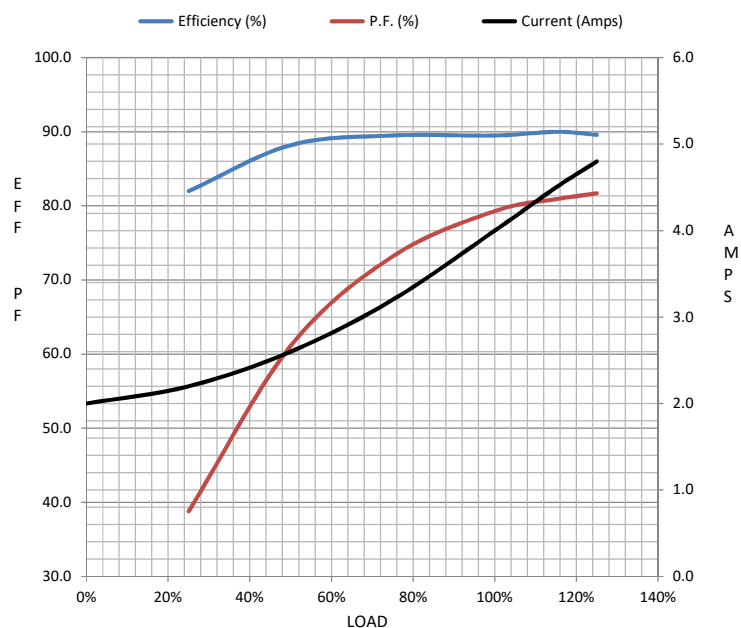
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.20	2.60	3.2	4.0	4.5	4.8	34.2	
Torque (ft-lb)	0.00	2.19	4.4	6.6	8.9	10.3	11.2	22.0	
RPM	1800	1790	1779	1767	1760	1,752	1745	0	
Efficiency (%)		82.0	88.2	89.5	89.5	90.0	89.6		
P.F. (%)	6.9	38.8	61.1	73.2	79.3	80.9	81.7	50.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	330	1500	1760	1800	HP	3.0		
Current (Amps)	34.2	33.5	22.0	4.0	2.00	Sync. RPM	1800		
Torque (ft-lb)	22.0	14.8	35.8	8.9	0.00	Frame	182		



Frame	182			
Enclosure	DP			
Construction	TDW			
Voltage	230/460#190-208/380-415 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	31 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.36 Lb-Ft²			
Ref Wdg	T84173 DR			
Sound Pressure @ 1M	51 dBA			
VFD Rating	NONE			
Outline Dwg	035539LN-900			
Conn. Diag	005010.01LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed - Torque Curve

