PRODUCT INFORMATION PACKET

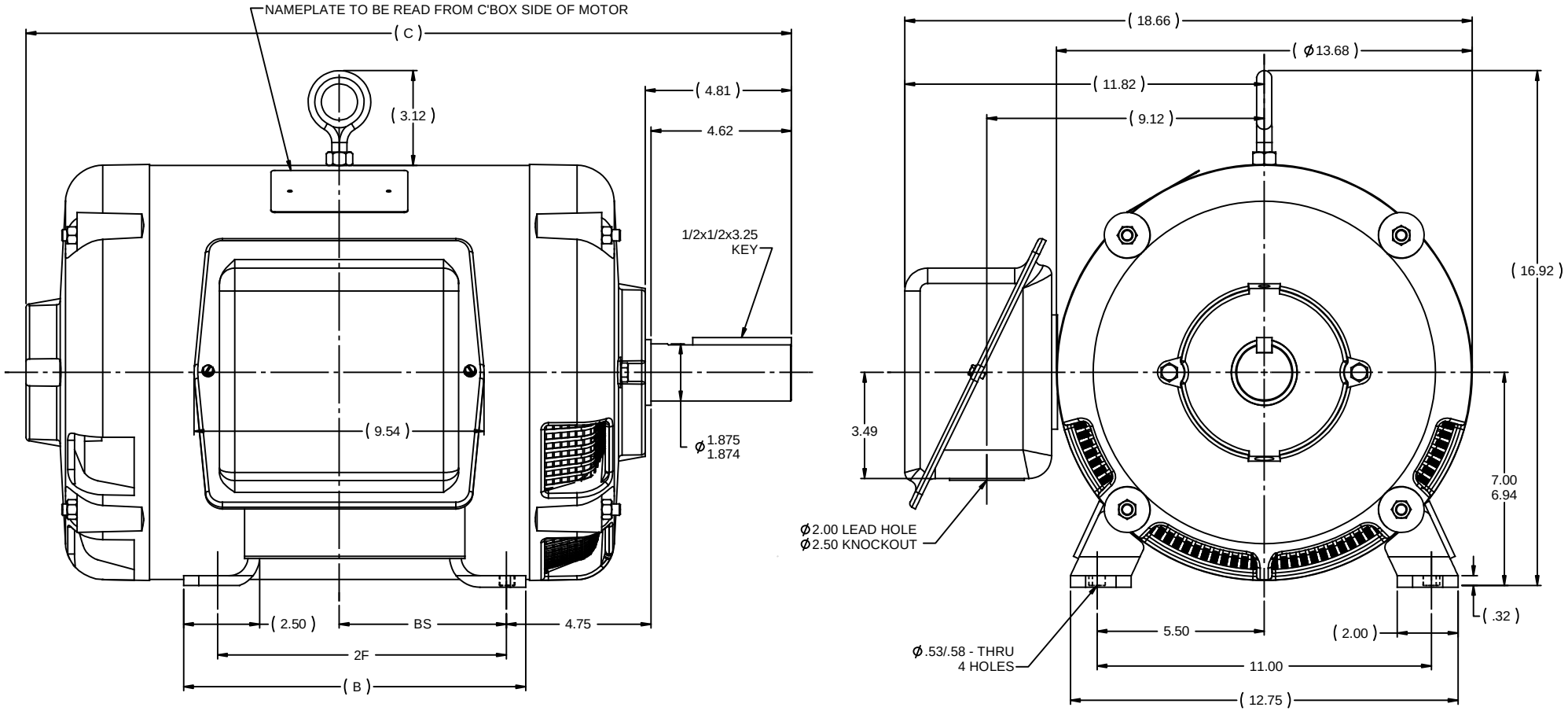
Model No: LM32746
Catalog No: LM32746
General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 286T Frame, DP

Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	1775 & 1478 rpm	Service Factor	1.25 & 1.0
Frame	286T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	48/24 & 45/22.5 A	Power Factor	84
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.435 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	25.18 in
Frame Length	12.50 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS24968LN-1250	Connection Drawing	A-EE7308-LN



NOTES:
1- C'BOX CAN BE ROTATED IN 90° STEPS.
2- C'BOX CAN BE MOUNTED ON OPPOSITE SIDE
BY REMOVING BRACKETS AND TURNING FRAME 180°

DASH	FRAME	B	C	BS	2F	MTG
1100	284T	11.25	23.68	4.75	9.50	F1/F2
1250	286T	12.75	25.18	5.50	11.00	F1/F2
1250	284T	11.25	25.18	4.75	9.50	F1 ONLY
1350	284T	11.25	26.18	4.75	9.50	F1 ONLY
1350	286T	12.75	26.18	6.00	11.00	F1 ONLY
1450	286T	13.00	27.18	6.50	11.00	F1 ONLY

NO	REVISION	BY & DATE	CHK
02	ADDED NAMEPLATE ECN 20575	RFH 6/8/2011	BW
01	REVISED KNOCKOUT DESCRIPTION ECN 20232	RFH 5/18/2011	SW

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

Lincoln MOTORS

TITLE OUTLINE - STEEL C'BOX
280T FR. - BB - TS - DR.PR.
MAT'L
FINISH
CAD FILE SS24968LN
RFP
DIST

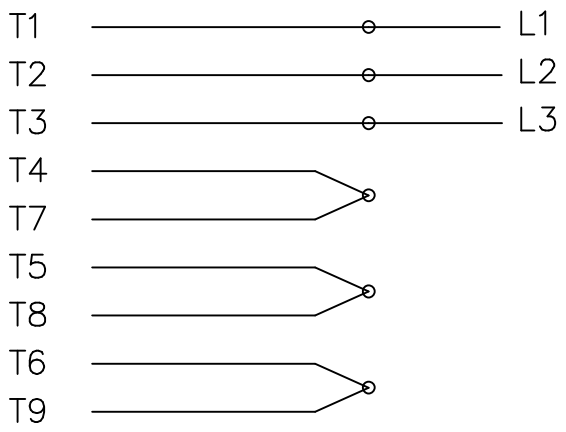
DRAWN SJW 3-31-2011
CHK BW 3-31-2011
APPR DR 3-31-2011
SCALE 5:16
REF
FMF MU101632
PREV

SIZE B
DRAWING NO SS24968LN
REV 02

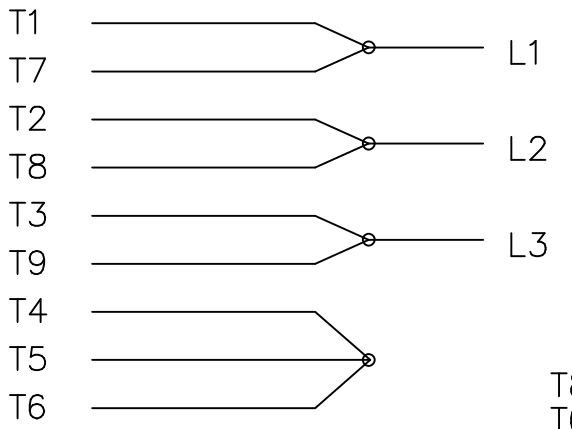
EE7308-LN

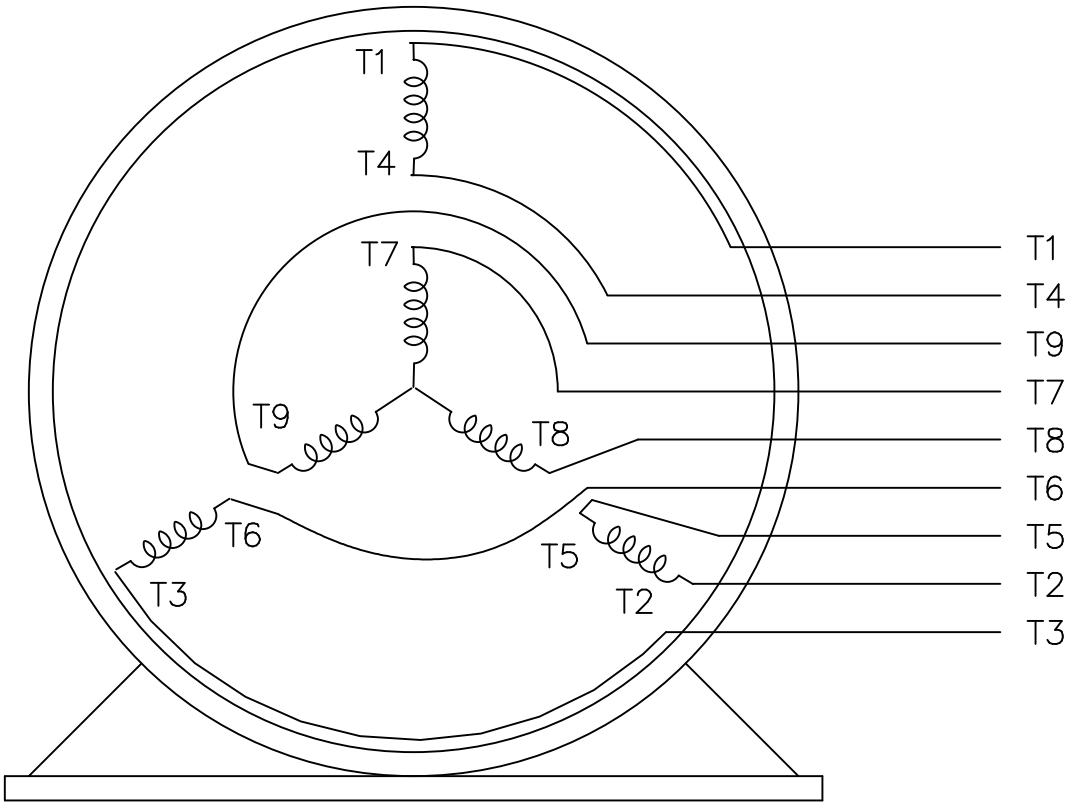
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK
1	NEW DRAWING	BLR 06/18/1999	GK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE EE7308LN

RFP

DIST WP

DRAWN	BLR 06/11/1999
CHK	ML 06/18/1999
APPD	GK 06/18/1999
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308-LN | PAGE OF | REV. 3

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LEESON

CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308-LN

OUTLINE: B-SS24968LN-1250

WINDING #: K2564269 1

CATALOG # : LM32746

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	1800	1775&1478	286T	DP	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	48/24&45/22.5	ACROSS THE LINE	CONTINUOUS	B3	1.25/1.0	40

FULL LOAD EFF:	93&92.4	3/4 LOAD EFF:	93	1/2 LOAD EFF:	92.4	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	84&82	3/4 LOAD PF:	79.5	1/2 LOAD PF:	70	92.4	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59 LB-FT	290 / 145	112 LB-FT 190 %	150 LB-FT 254 %	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	3.3 LB-FT^2	125 LB-FT^2	20 SEC.	2	450 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
311	210						

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: 1/19/2018

LEESON

LM32746

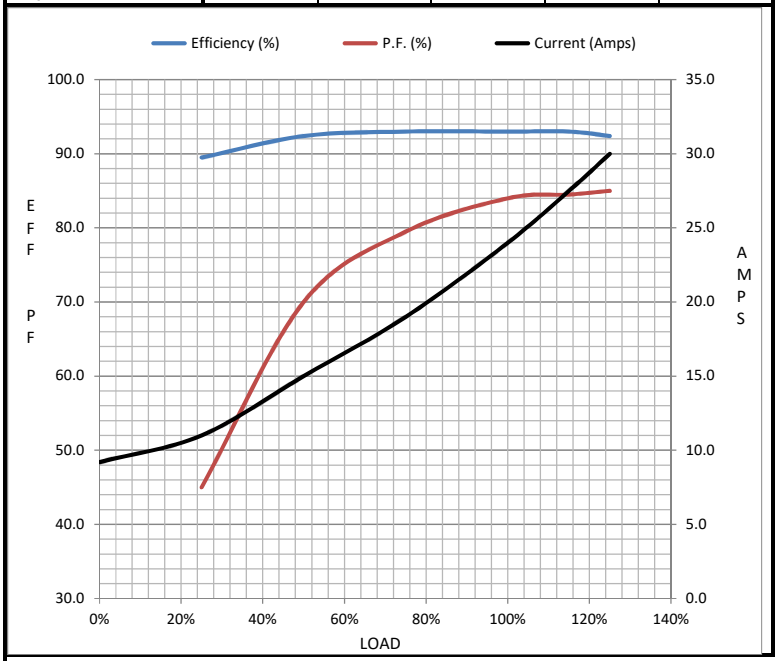
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.2	11.0	15.0	19.0	24.0	27.5	30.0	145	
Torque (ft-lb)	0.00	14.5	29.5	44.0	59.0	68.5	74.5	112	
RPM	1800	1795	1788	1780	1775	1,770	1765	0	
Efficiency (%)		89.5	92.4	93.0	93.0	93.0	92.4		
P.F. (%)	5.0	45.0	70.0	79.5	84.0	84.5	85.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	145	130	80.0	24.0	9.2
Torque (ft-lb)	112	90.0	150	59.0	0.00



Information Block

HP	20.0	
Sync. RPM	1800	
Frame	286	
Enclosure	DP	
Construction	TDR	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	30	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	3.3	Lb-Ft²
Ref Wdg	K2564269 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	NONE	
Outline Dwg	B-SS24968LN-1250	
Conn. Diag	A-EE7308-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.2630	0.1680	0.9870	1.5480	28.6130

Speed -Torque Curve