PRODUCT INFORMATION PACKET

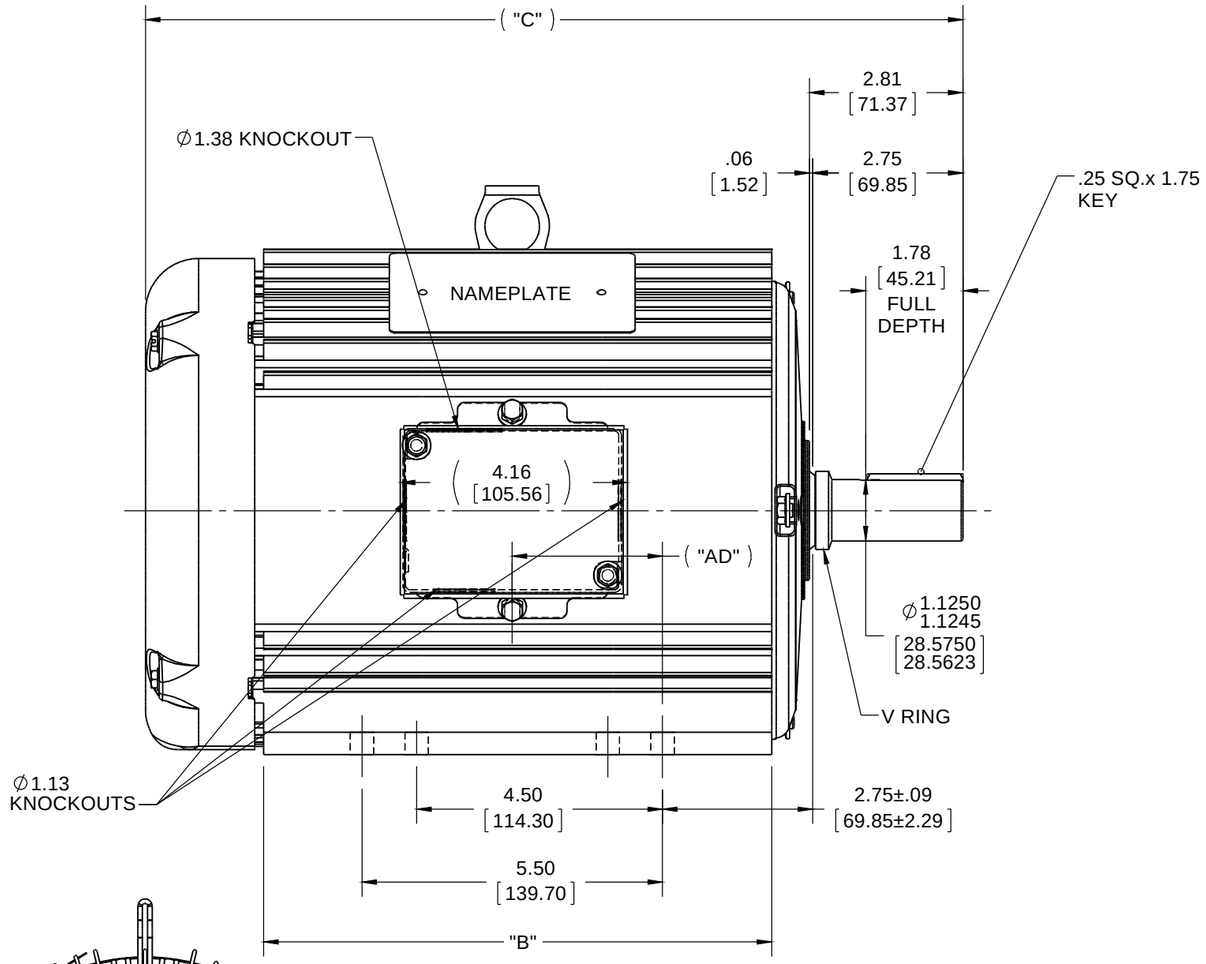
Model No: LM33624
Catalog No: LM33624
5 HP Special Voltage Motor, 3 phase, 1800 RPM, 200/400 V, 184T Frame, TEFC
Special Voltage Motors

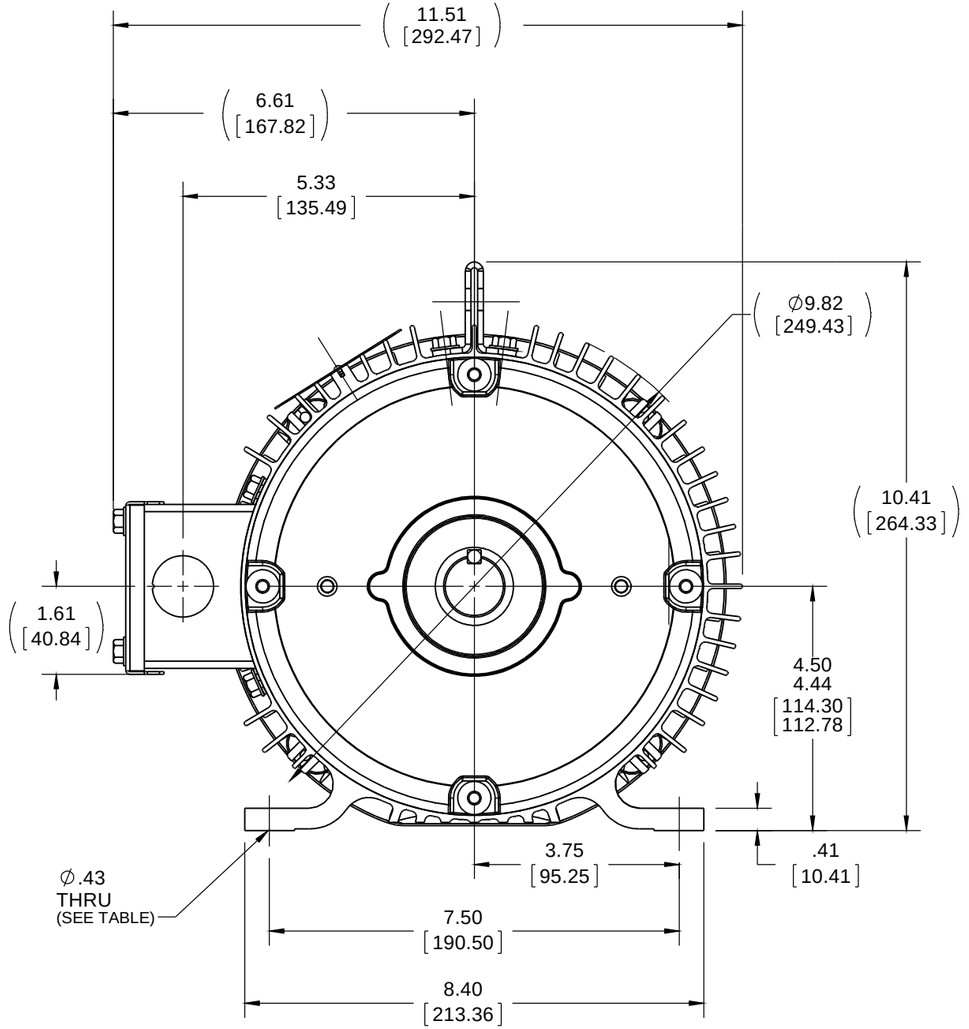
Nameplate Specifications

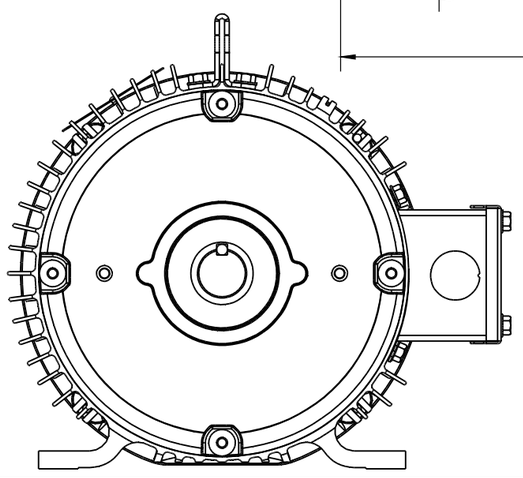
Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	200/400 V
Current	14.5/7.3 A	Speed	1760 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	2.68 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	14.96 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7308-LN	Outline Drawing	036121LN-950







DASH NO.	"C"	"AD"	"B"	FOOT HOLES
950	14.96	2.75	9.30	8

DRAWING REVISION: A	REVISION BY: PVR	DATE: 02/06/15
ECO: ECO-0070963	APPROVED BY: ST	DATE: 02/06/15
ECO DESCRIPTION: NEW DRAWING		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: PVR	
DATE: 02/6/15	
APPROVED BY: ST	
DATE: 02/06/15	
REFERENCE: 035972LN	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
T.E.F.C 180 AL. FRAME

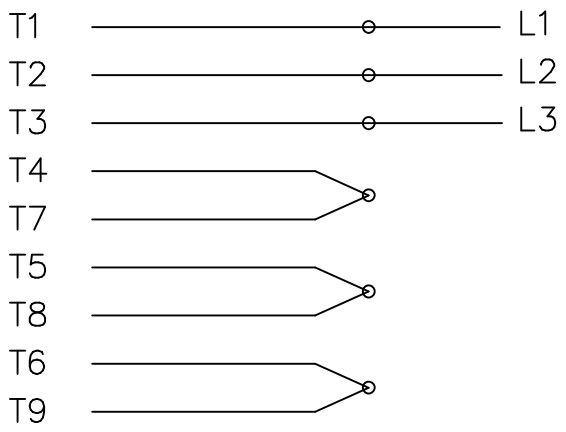
MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: 036121LN | SHEET: 1 OF 1

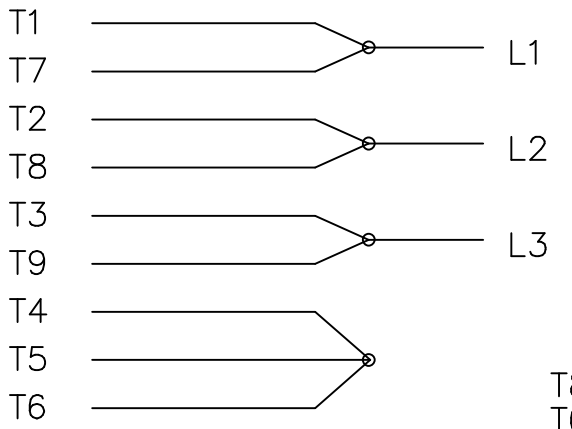
EE7308-LN

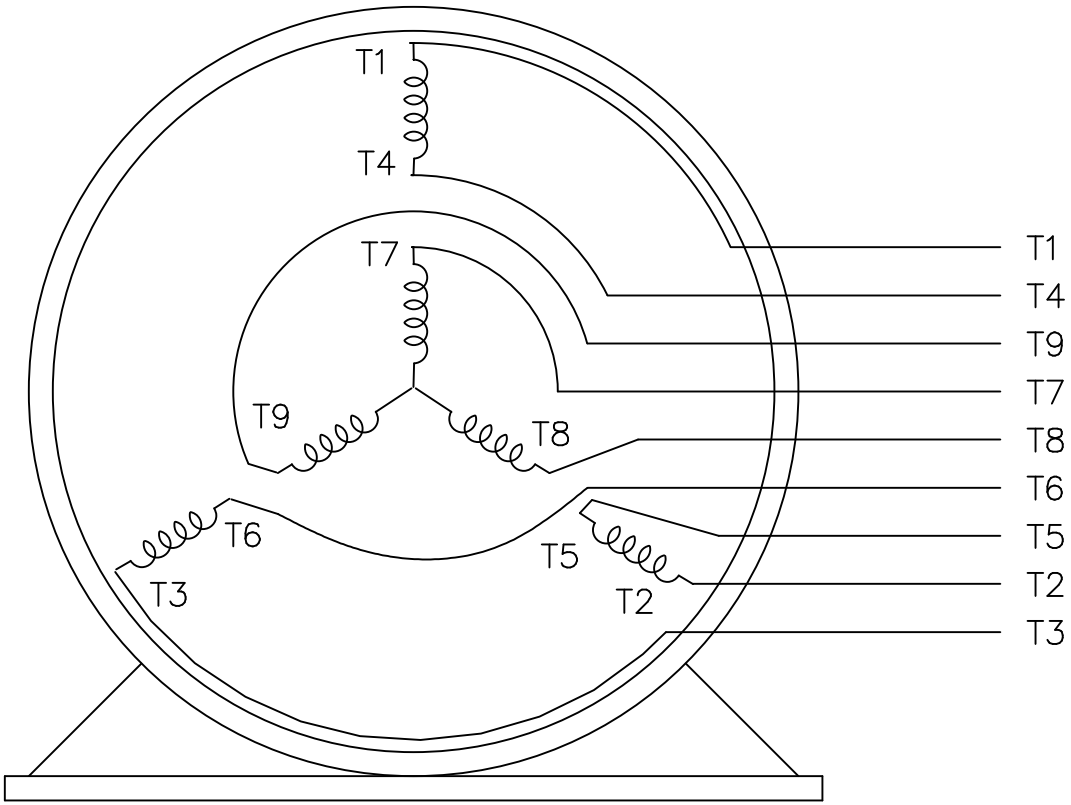
THREE PHASE
DUAL VOLTAGE MOTOR

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

7/19/2007 9:20:15 AM -

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308-LN **CAT #:** LM33624
OUTLINE: 036121LN-950
WINDING: T84170 FL 9

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1800	1760	184T	TEFC	TFL	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	200/400	14.5/7.3	ACROSS THE LINE	CONT	F	1.15	50	3300

F.L. EFF	89.5	3/4 LD EFF	90.2	1/2 LD EFF	88.9	GTD EFF	ELECT. TYPE
F.L. PF	83.0	3/4 LD PF	79.4	1/2 LD PF	70.9	0.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
15.0 LB-FT	56.4	30.1 LB-FT 201%	50.2 LB-FT 335%	65	

PRESSURE @ 3	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
0 dBA	9 dBA	0.49 LB-FT²	0 LB-FT²	10 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSAVER

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ALUMINUM
6206	6205						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0	0	0	0	0	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-INS, CONST UL REC

DATE: 9/6/2018

Data Sheet

Date: 9/6/2018

LEESON

LM33624

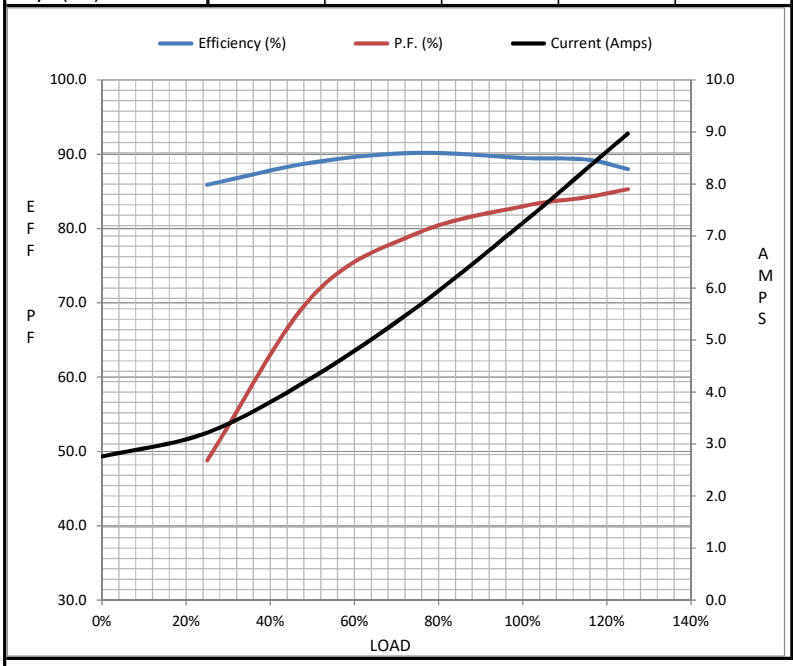
Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.76	3.2	4.3	5.6	7.3	8.3	9.0	56.4	
Torque (ft-lb)	0.00	3.7	7.4	11.1	15.0	17.4	18.8	30.1	
RPM	1800	1790	1779	1768	1760	1,747	1742	0	
Efficiency (%)		85.9	88.9	90.2	89.5	89.3	88.0		
P.F. (%)	6.8	48.8	70.9	79.4	83.0	84.2	85.3	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1760	1800
Current (Amps)	56.4	51.8	33.8	7.3	2.76
Torque (ft-lb)	30.1	29.8	50.2	15.0	0.00



Information Block

HP	5.0	
Sync. RPM	1800	
Frame	184	
Enclosure	TEFC	
Construction	TFL	
Voltage	200/400	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.49	Lb-Ft²
Ref Wdg	T84170 FL	
Sound Pressure @ 1M	0	dBA
VFD Rating	NONE	
Outline Dwg	036121LN-950	
Conn. Diag	EE7308-LN	

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