PRODUCT INFORMATION PACKET

Model No: LM21202
Catalog No: LM21202
Speed Ratio Motors, TEFC, 15 HP, 3 Ph, 60 Hz, 230/460 V, 1770 RPM, 254T Frame

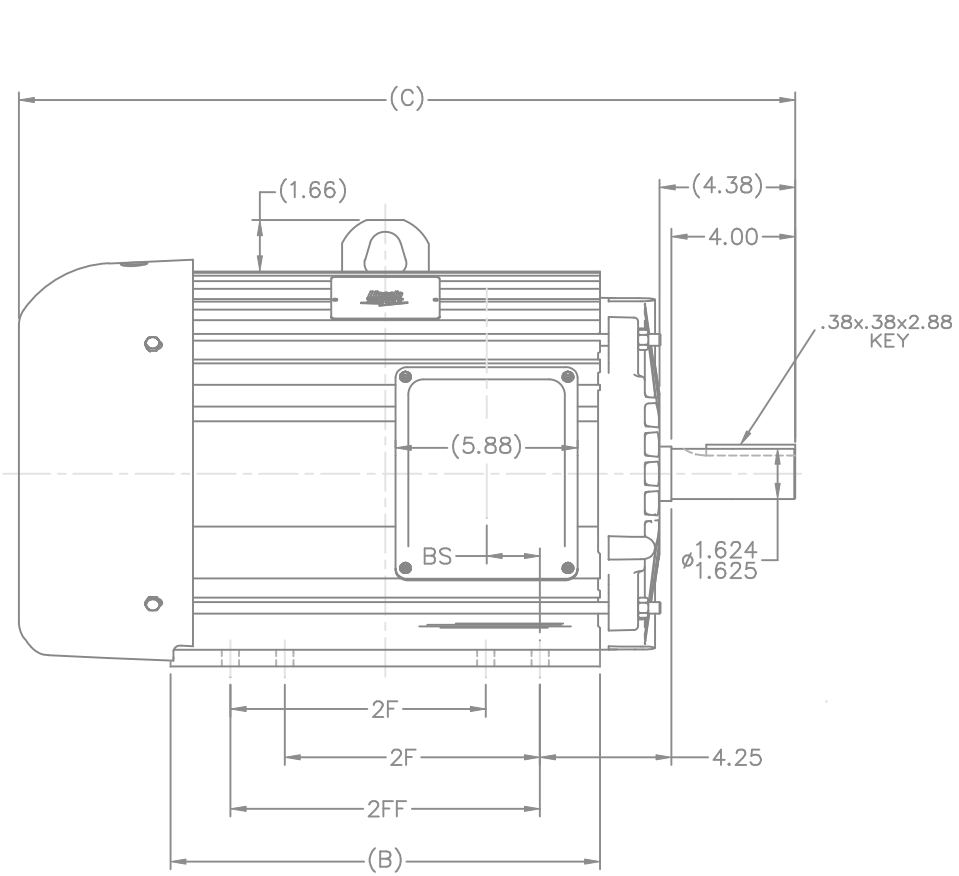
RegalRexnord

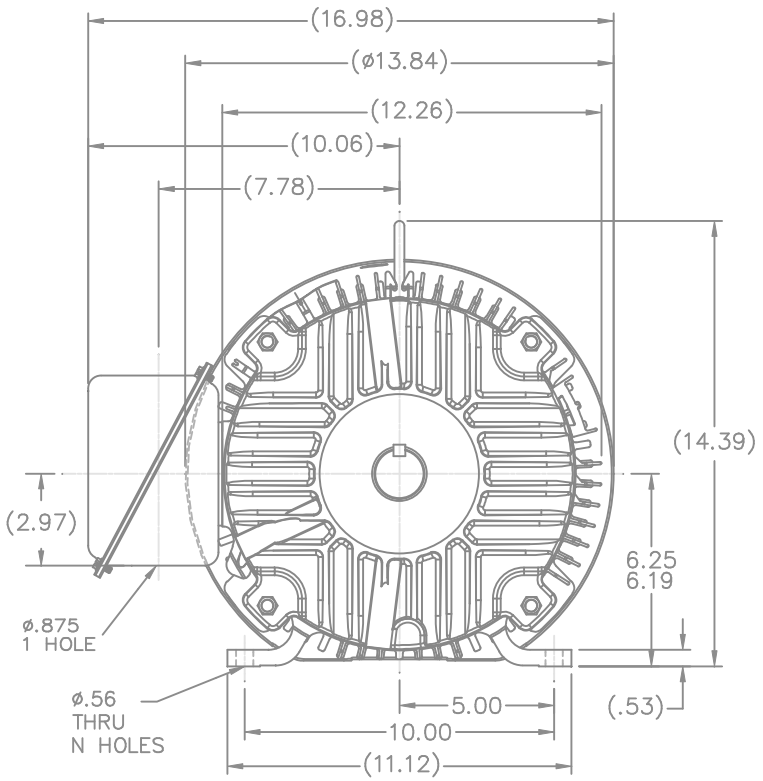
Nameplate Specifications

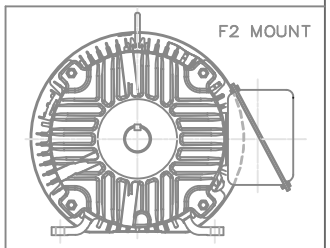
Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	39.0/19.5 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	G
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.69 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	23.40 in
Frame Length	12.00 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 4:1		
Connection Drawing	A-EE7308T-LN	Outline Drawing	B-SS321100LN-1200







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

DASH	FR.	C	B	BS	2F	2FF	N
1200	254T	23.40	12.13	1.73	8.25		4
1375	254/6T	25.15	13.88	1.73	8.25	10.00	8

NO.	REVISION	BY & DATE	CHK
3	B DIM 12.13 WAS 12.00, AND 13.88 WAS 13.75	MJK 05/18/2004	
	CN 29200-3584		
2	25.15 WAS 25.65, 23.40 WAS 23.90 CN 32681	MJK 05/04/2004	
1	(4.38) WAS (4.37), ø1.624/1.625 WAS ø1.624/1.624	MJK 04/29/2004	
	CN 32681		

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

Lincoln MOTORS

TITLE OUTLINE
250T FR – ALUM. FR. – TEFC

MAT'L.
FINISH
CAD FILE ss321100ln
RFP
DIST LB

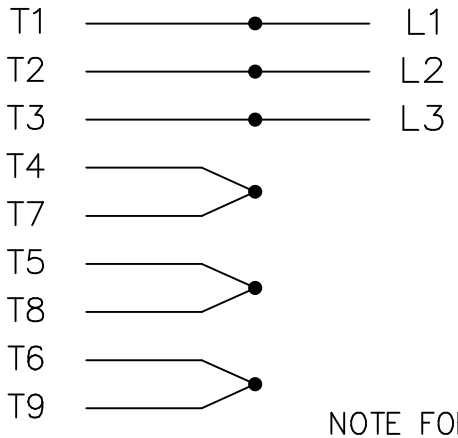
DRAWN MJK 03-29-2004
CHK ML 03-29-2004
APPD JPL 03-29-2004
SCALE 1=4
REF
FMF
PREV

SIZE B | DRAWING NO. SS321100LN | PAGE OF | REV. 3

EE7308T-LN

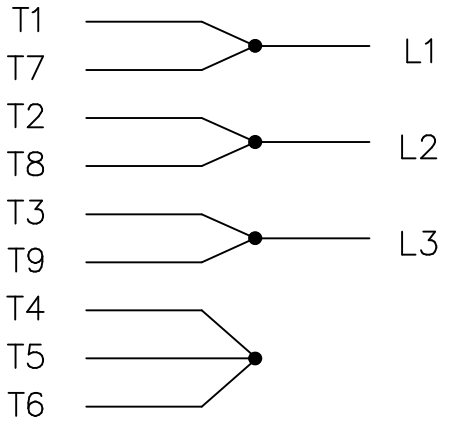
THREE PHASE
DUAL VOLTAGE MOTOR

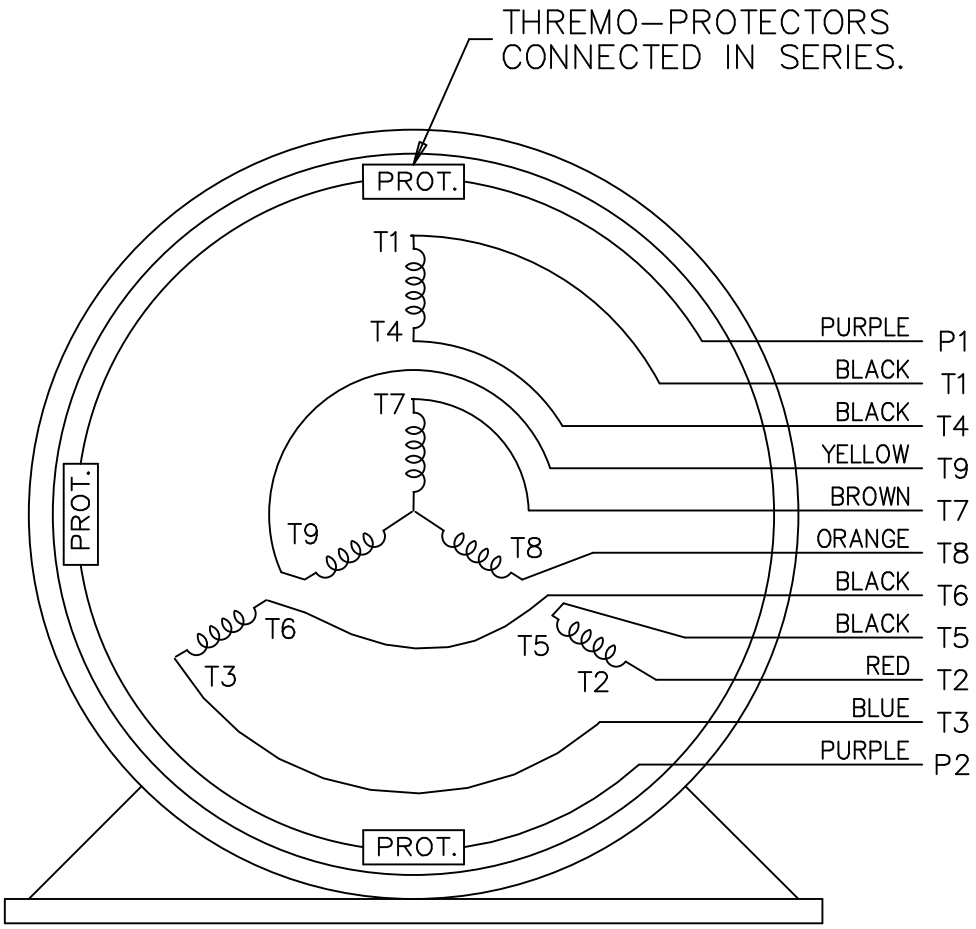
HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE





VIEW OF TERMINAL END

NO.	REVISION	BY & DATE	CHK
2	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML
1	NEW DRAWING	BJK 07-18-2002	DRS

TOLERANCES UNLESS SPECIFIED

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

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3 PHASE – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE ee7308t_ln

RFP

DIST LB

DRAWN BJK 07-16-2002
CHK DRS 07-18-2002
APPD GK 07-18-2002
SCALE 1=1
REF
FMF
PREV

SIZE	DRAWING NO.	PAGE	OF	REV.
A	EE7308T-LN			2

7/19/2007 9:24:35 AM -

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LN **CAT #:** LM21202
OUTLINE: B-SS321100LN-1200
WINDING: K2544169 R3 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.2	1800	1770	254T	TEFC	TFY	G	INC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	39/19.5	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	92.0	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	79.0	3/4 LD PF	73.0	1/2 LD PF	61.0	89.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
44.5 LB-FT	108	87.0 LB-FT 196%	128 LB-FT 288%	60	

PRESSURE @ 3	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	2.10 LB-FT²	0 LB-FT²	0 SEC.	0	300 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 309	BALL 208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.444	0.238	1.408	1.629	28.142	0.080	ODE

* NOTES *

INVERTER TORQUE: CONSTANT 4:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-OVER TEMP PROT 3, P1-P2

DATE: 9/10/2018

Data Sheet

Date: 1/19/2018

LEESON

LM21202

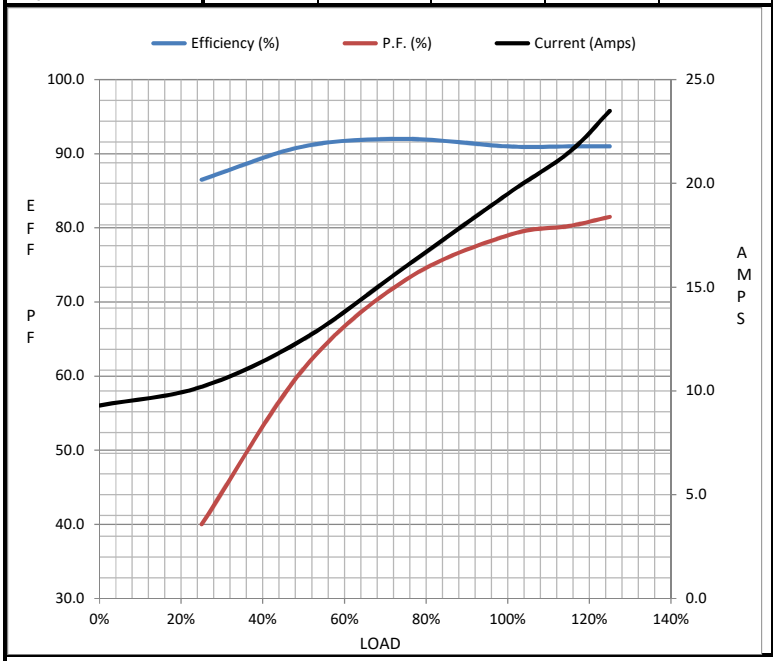
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.3	10.2	12.5	16.0	19.5	21.5	23.5	108	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.5	50.3	56.0	87.0	
RPM	1800	1792	1785	1780	1770	1,766	1760	0	
Efficiency (%)		86.5	91.0	92.0	91.0	91.0	91.0		
P.F. (%)	5.5	40.0	61.0	73.0	79.0	80.3	81.5	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1650	1770	1800
Current (Amps)	108	90.0	67.0	19.5	9.3
Torque (ft-lb)	87.0	72.0	128	44.5	0.00



Information Block

HP	15.0	
Sync. RPM	1800	
Frame	254	
Enclosure	TEFC	
Construction	TFY	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.0	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	2.10	Lb-Ft²
Ref Wdg	K2544169 R3	
Sound Pressure @ 1M	68	dBA
VFD Rating	CONSTANT 4:1	
Outline Dwg	B-SS321100LN-1200	
Conn. Diag	A-EE7308T-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.4440	0.2380	1.4080	1.6290	28.1420

Speed -Torque Curve