PRODUCT INFORMATION PACKET

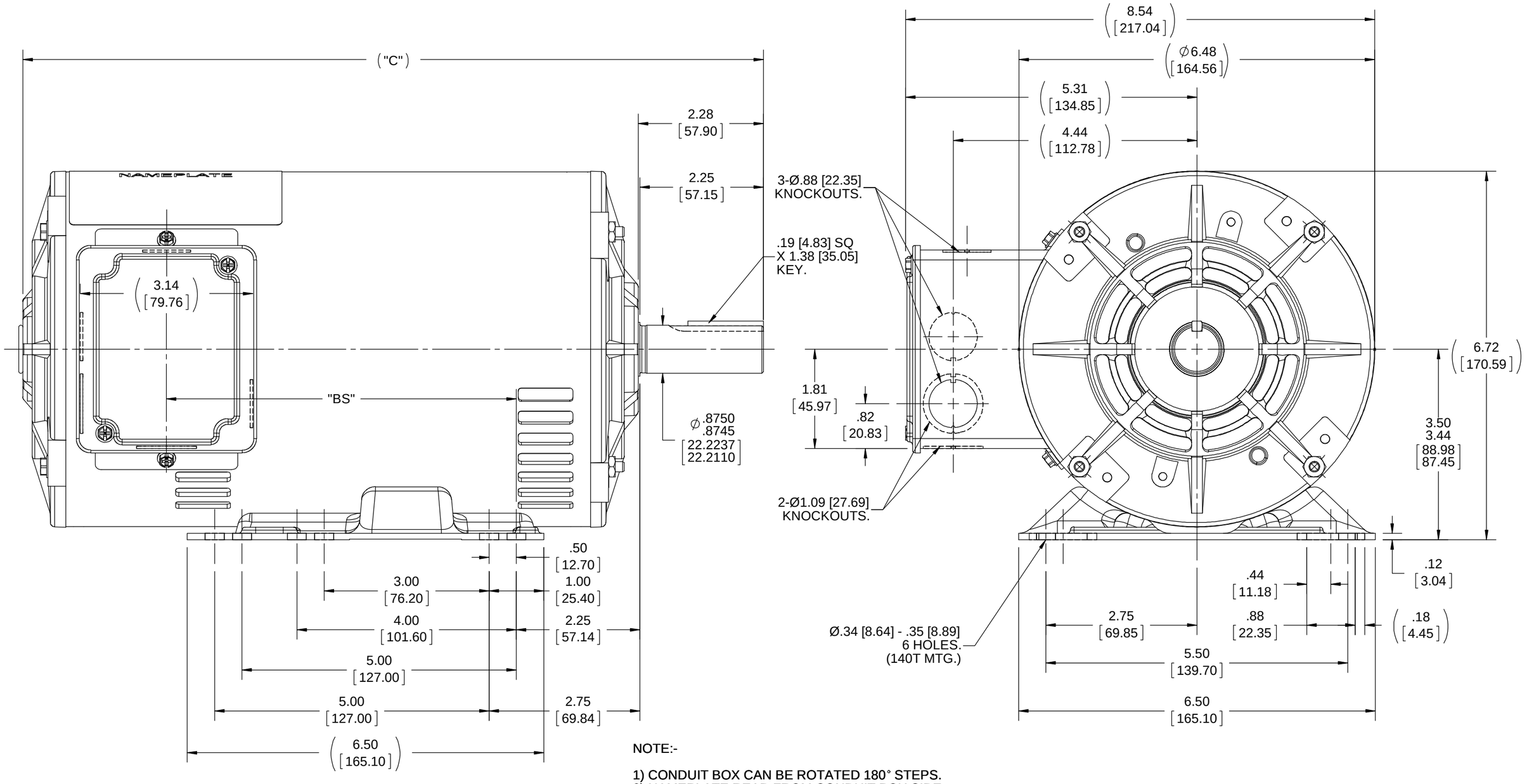
Model No: LM21151
Catalog No: LM21151
1.50 HP Variable Speed Motor, 3 phase, 1800 RPM, 230/460 V, 145T Frame, ODP
Speed Ratio Motors

Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.4/2.2 A	Speed	1750 rpm
Service Factor	1	Phase	3
Efficiency	84 %	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	M
Frame	145T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	205	Opp Drive End Bearing Size	203
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	10.83 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	12.49 in
Frame Length	8.56 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1		
Outline Drawing	100085LN-856	Connection Drawing	EE7308T-LN



DASH.	"C"	"BS/140T"
706	10.99 [279.15]	3.88 [98.55]
756	11.49 [291.85]	4.38 [111.25]
806	11.99 [304.55]	4.88 [123.95]
856	12.49 [317.25]	5.38 [136.65]
906	12.99 [329.95]	5.88 [149.35]
956	13.49 [342.65]	6.38 [162.05]

NOTE:-

1) CONDUIT BOX CAN BE ROTATED 180° STEPS.
2) NAMEPLATE READ FROM CONDUIT BOX SIDE.

DRAWING REVISION	REVISION BY	DATE
C	A SUPPANNAVAR	02/28/2018
ECO	APPROVED BY	DATE
ECO-0136109	PST	05/18/2018

ECO DESCRIPTION: OUTLINE CONVERSION PROJECT

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] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 / 5.1 / INCH / mm
mm SHOWN IN [BRACKETS]

DRAWN BY	BLR
DATE	06-07-1999
APPROVED BY	
DATE	
REFERENCE	100085LN
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
140T & 56HZ - DR.PR.

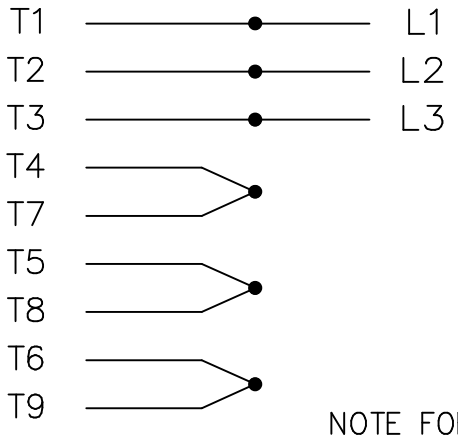
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	100085LN	1 OF 1

EE7308T-LN

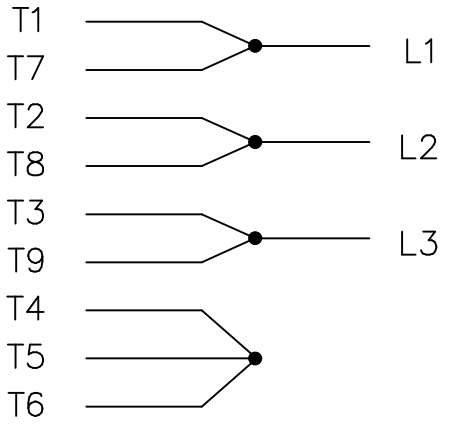
THREE PHASE
DUAL VOLTAGE MOTOR

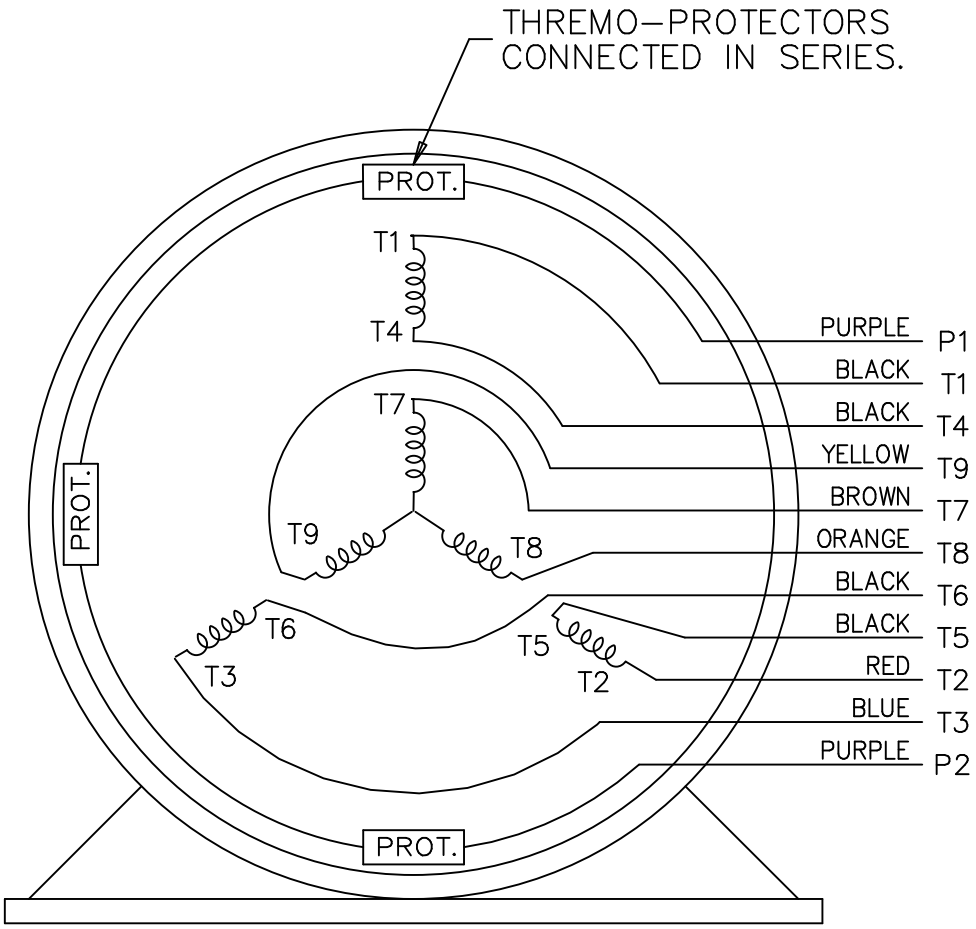
HIGH VOLTAGE



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 -

Data Sheet

Date: 2/1/2018

LEESON

LM21151

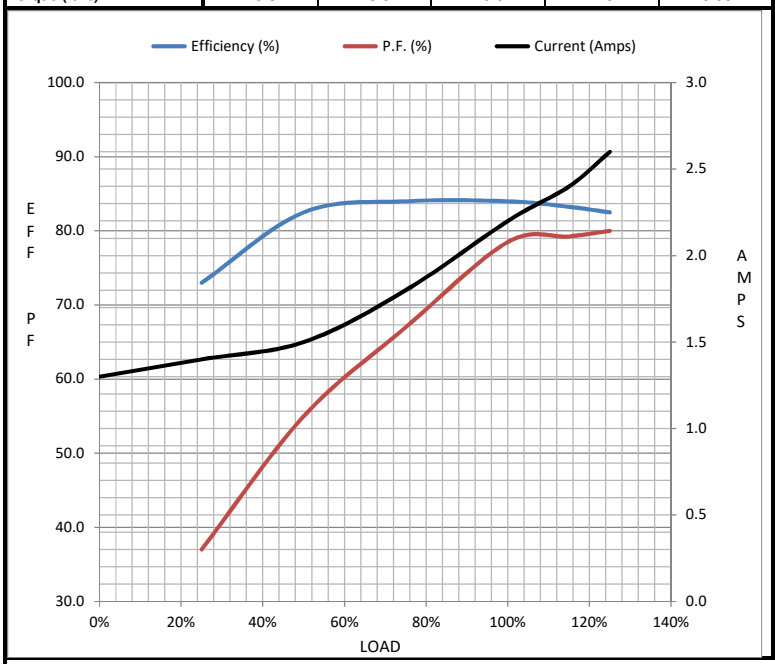
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.30	1.40	1.50	1.80	2.20	2.40	2.60	19.5	
Torque (ft-lb)	0.00	1.10	2.20	3.4	4.5	5.1	5.7	15.3	
RPM	1800	1788	1775	1760	1750	1,744	1735	0	
Efficiency (%)		73.0	82.5	84.0	84.0	83.3	82.5		
P.F. (%)	9.0	37.0	55.0	67.0	78.5	79.3	80.0	71.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	1250	1750	1800
Current (Amps)	19.5	18.0	13.0	2.20	1.30
Torque (ft-lb)	15.3	13.5	20.0	4.5	0.00



Information Block

HP	1.5	
Sync. RPM	1800	
Frame	145	
Enclosure	DP	
Construction	TDR	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	M	
Service Factor	1.15	
Temp Rise @ FL	40	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.11	Lb-Ft²
Ref Wdg	ZT4112 R1	
Sound Pressure @ 1M	56	dBA
VFD Rating	CONSTANT 2:1	
Outline Dwg	A-100085LN-856	
Conn. Diag	A-EE7308T-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
5.9220	3.6890	8.5710	8.0600	229.8780

Speed -Torque Curve