

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



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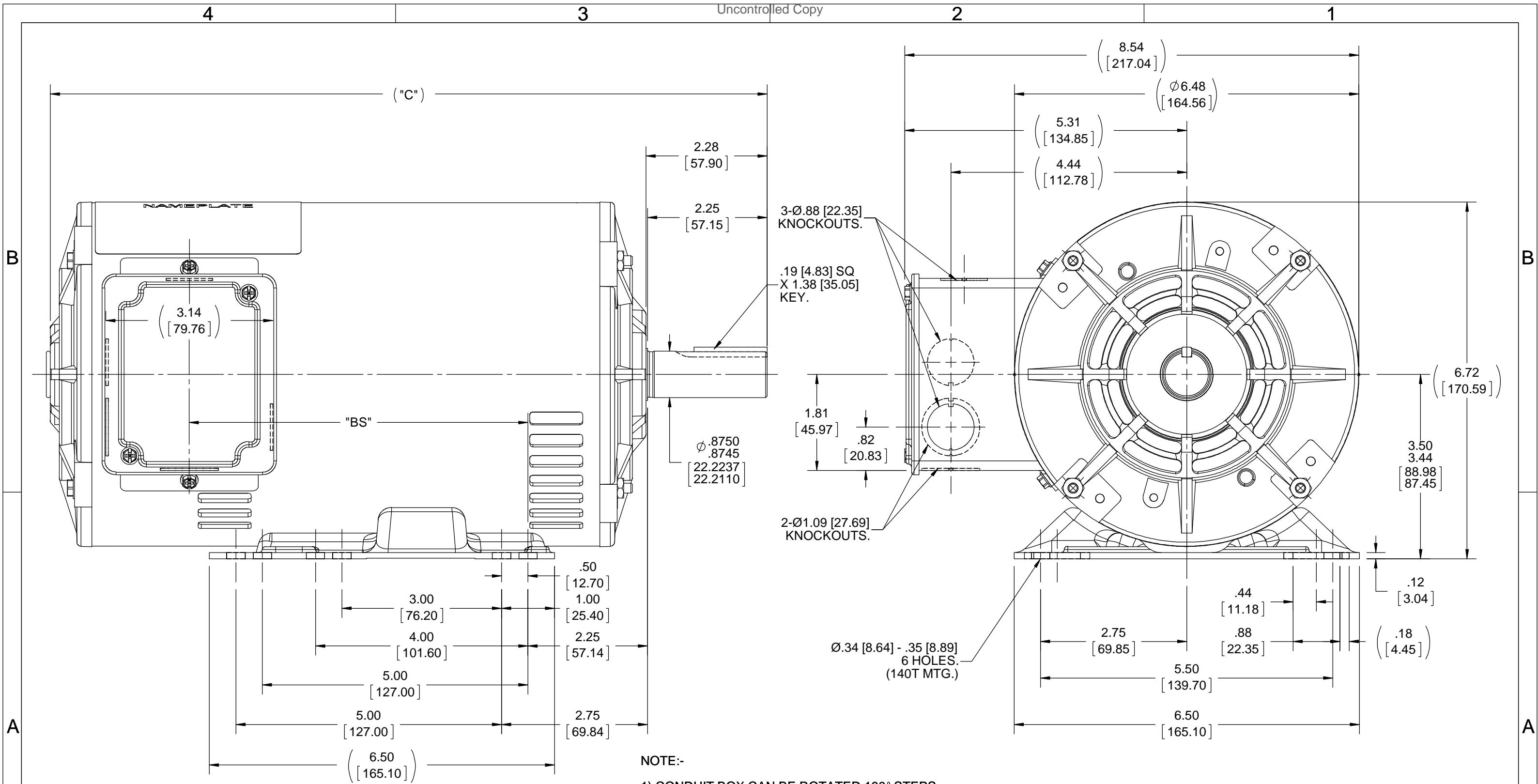


Nameplate Specifications

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



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

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]

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

ECO DESCRIPTION
OUTLINE CONVERSION PROJECT
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

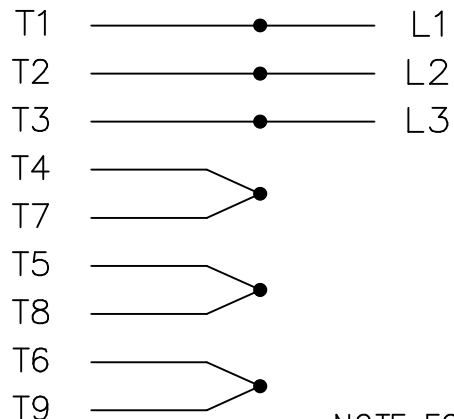
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]

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

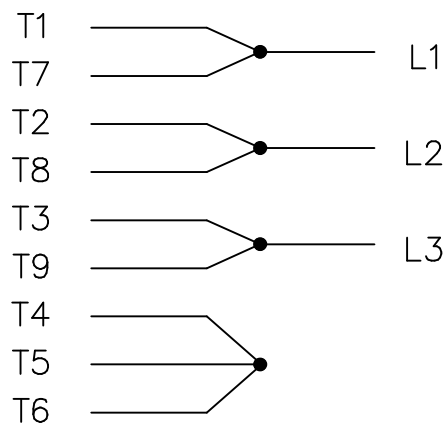
REGAL™ Regal Beloit America, Inc.	
DESCRIPTION	PROCESS/FINISH
OUTLINE 140T & 56HZ - DR.PR.	
MATERIAL	DRAWING NUMBER
	100085LN
SIZE	SHEET
B	1 OF 1

HIGH VOLTAGE



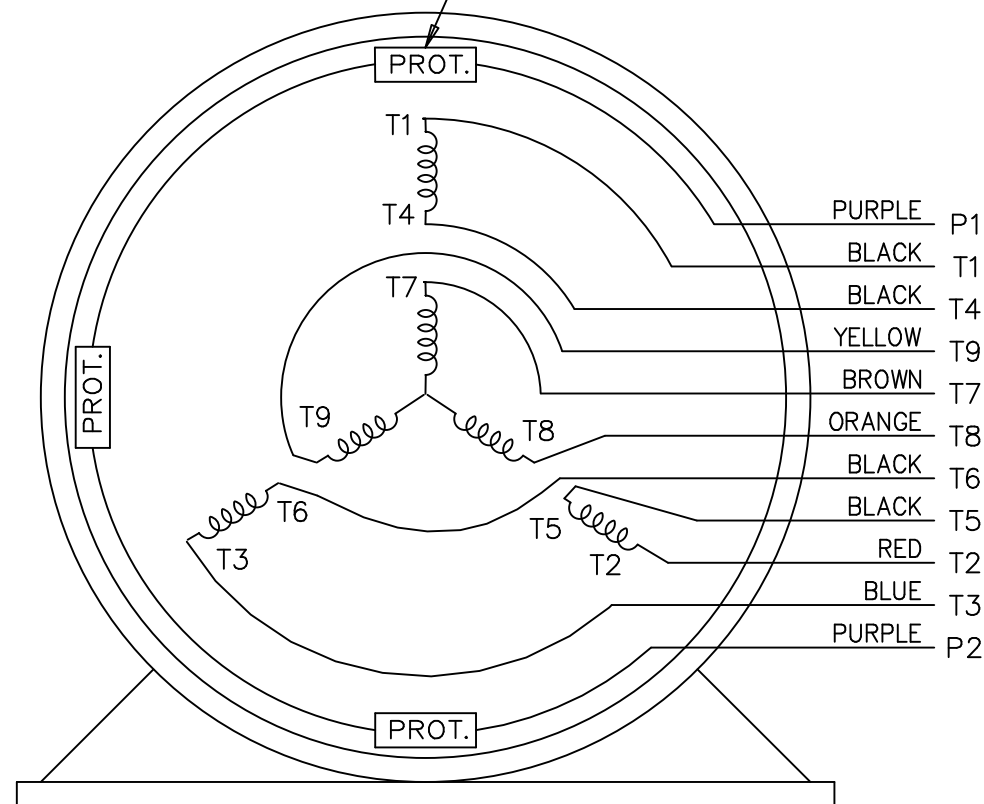
NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



THREE PHASE
 DUAL VOLTAGE MOTOR

THREMO-PROTECTORS
 CONNECTED IN SERIES.



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BJK 07-16-2002			
				DEC.	INCHES		CHK DRS 07-18-2002			
				.X	±.1		APPD GK 07-18-2002			
				.XX	±.02	TITLE CONNECTION DIAGRAM			SCALE 1=1	
2 ADDED COLORS TO "T & P" LEADS CN 40494 MSG 08-08-2006 ML .XXX ±.005				3 PHASE - DUAL VOLTAGE MOTOR			REF			
1 NEW DRAWING BJK 07-18-2002 DRS .XXXX ±.0005				MAT'L.			FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV			
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 ee7308t_ln		SIZE A	DRAWING NO. EE7308T-LN	PAGE OF	REV. 2
				DIST LB						

Data Sheet

Date: 2/1/2018

LM21151



Data @ 460 V

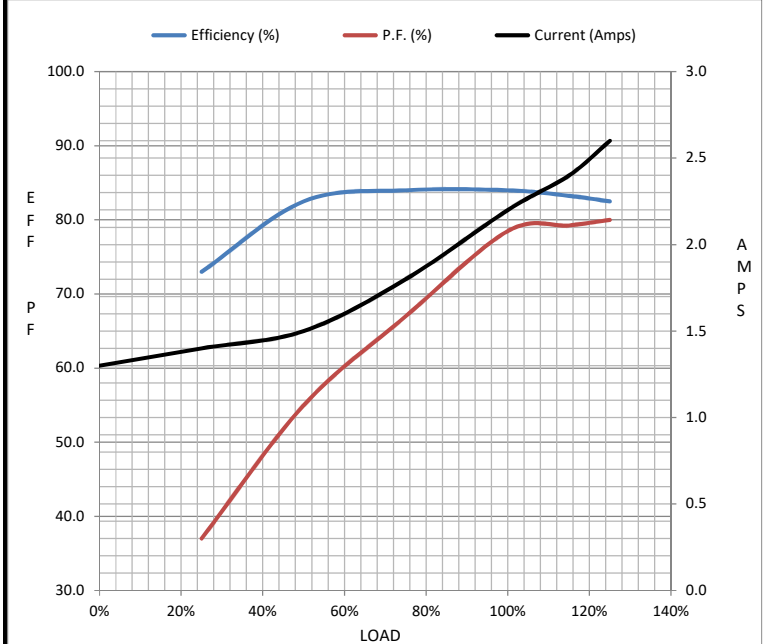
Motor Load Data

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 wk ²	0.11 Lb-Ft ²			
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

