

# PRODUCT INFORMATION PACKET



Model No: 122175.00  
Catalog No: 122175.00  
Explosion Proof Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,  
145TC Frame, EPFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.  
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E





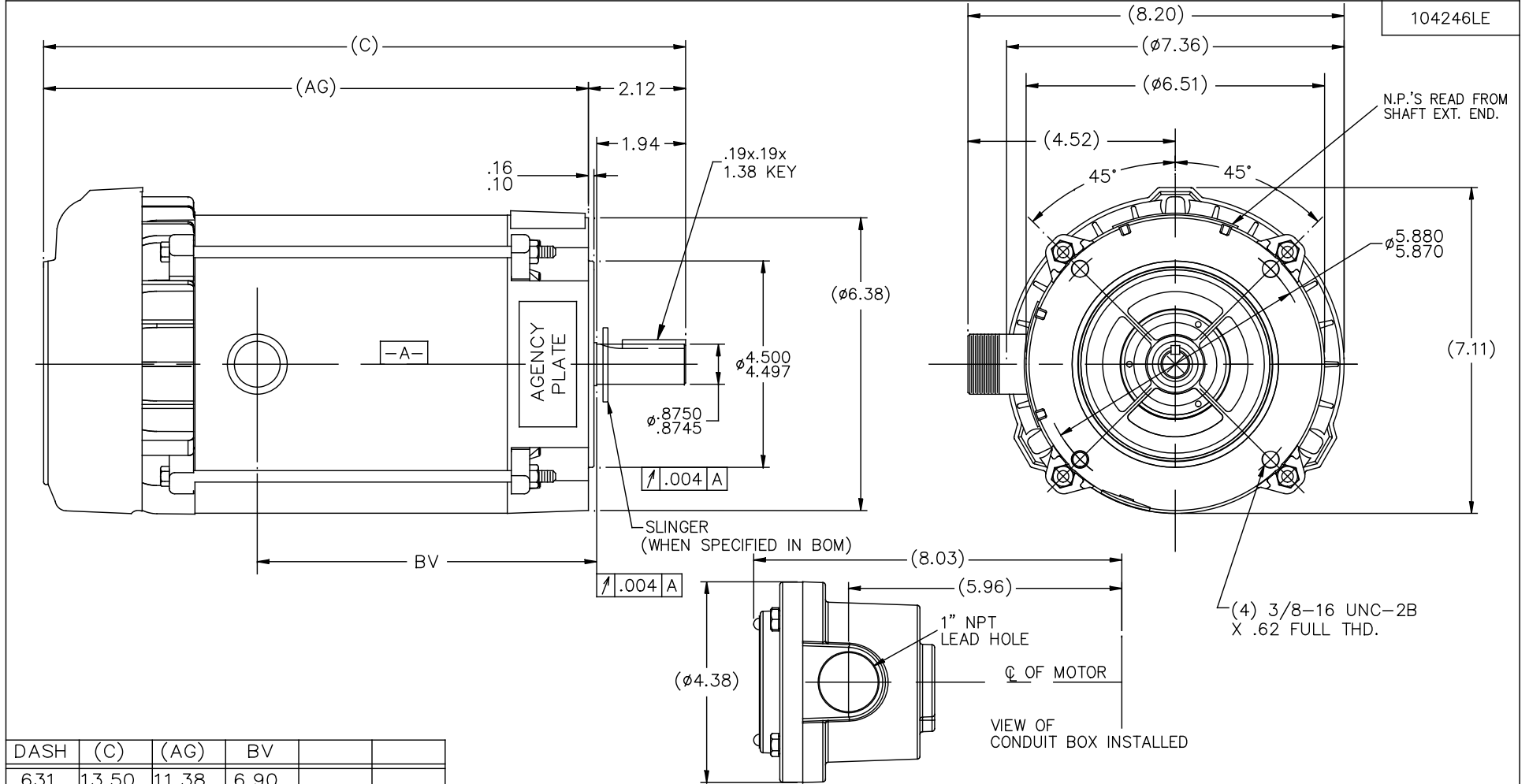
**Nameplate Specifications**

Phase	<b>3</b>	Output HP	<b>2 &amp; 1.50 Hp</b>
Output KW	<b>1.5 &amp; 1.1 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1760 &amp; 1455 rpm</b>	Service Factor	<b>1.0 &amp; 1.0</b>
Frame	<b>145TC</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>86.5 &amp; 90 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>6/3 &amp; 5.4/2.7 A</b>	Power Factor	<b>71</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>B</b>	KVA Code	<b>N</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>UL Listed And CSA Certified</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>	Hazardous Location	<b>DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C</b>

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>6.58 Ohms</b>	Mounting	<b>Round</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>16.50 in</b>
Frame Length	<b>9.31 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>2.25 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Inverter Load	<b>VARIABLE 10:1</b>		
Outline Drawing	<b>104246LE-931</b>	Connection Drawing	<b>EE7308T-LE</b>



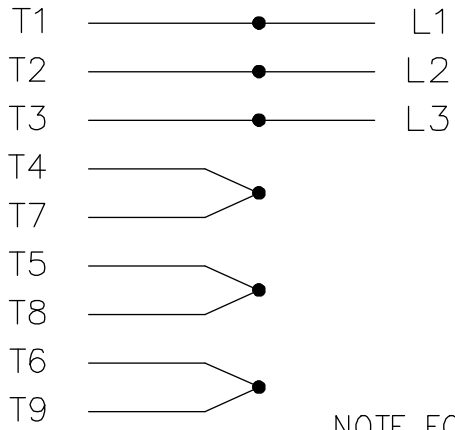


DASH	(C)	(AG)	BV		
631	13.50	11.38	6.90		
681	14.00	11.88	7.40		
731	14.50	12.38	7.90		
831	15.50	13.38	8.90		
881	16.00	13.88	9.40		
931	16.50	14.38	9.90		
981	17.00	14.88	10.40		

		TOLERANCES UNLESS SPECIFIED				LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN R/JW 01-12-2005	
		DEC.	INCHES							CHK	ML 01-12-2005
		.X	±.1							APPD	ET 01-12-2005
		.XX	±.03							SCALE	1=2
2	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/17/13	ST	.XXX	±.005	TITLE OUTLINE - C"FACE 140 FR. - EXP.PR.		REF	MU64088	
1	REVISED C'BOX PER CN 40784A	JJB	02/26/2007	ML	.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	01-12-2005	CAD FILE 104246le		SIZE	DRAWING NO.	PAGE	OF
				DIST	WP			B	104246LE	2	REV. 2

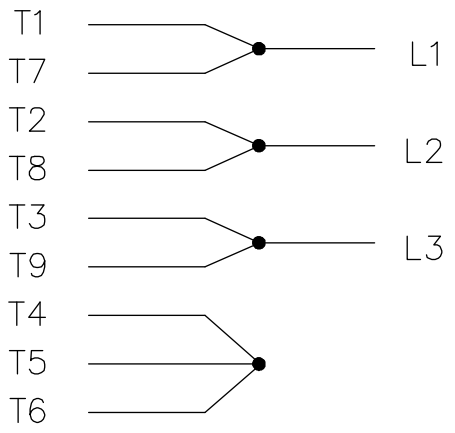
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

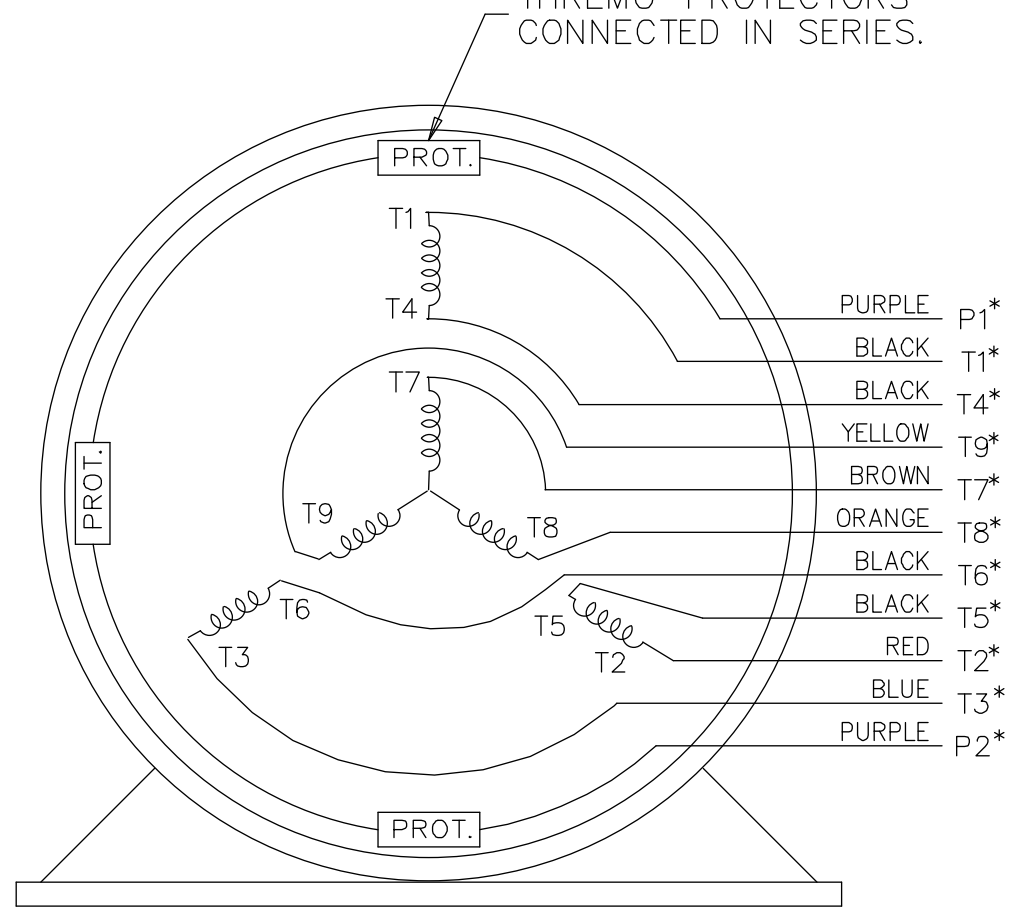


NOTE FOR FACTORY USE ONLY:  
 TO SURGE TEST FOR COMMON CONNECT:  
 HIGH VOLT: CONNECT P1 TO T1  
 THEN P2 TO L1  
 LOW VOLT: CONNECT P1 TO T1 & T7,  
 THEN P2 TO L1

LOW VOLTAGE




THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJB 05-07-2002			
NO.	REVISION	BY & DATE	CHK	ANG	±		SIZE	DRAWING NO.	PAGE OF	REV.
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES	TITLE CONNECTION DIAGRAM 3 PHASE - DUAL VOLTAGE MOTOR	CHK	ML	05-08-2002	
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1		APPD	TB	05-08-2002	
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02		SCALE	1=1		
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005		REF			
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005		FINISH	FMF		
			RFP			CAD FILE	EE7308T_LE	A	EE7308T-LE	05
			DIST	LB-WP-LE						

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

P.O. BOX 8003  
 WAUSAU, WI 54401-8003  
 PH. 715-675-3311



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7308T  
 OUTLINE: B-104246LE-931  
 WINDING: ZT4255

CAT #: 122175.00

R9 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	1800	1760	145 C	EPFC	TFR	N	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	6/3&5.4/2.7	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	86.5	1/2 LD EFF	85.5	GTD EFF	84.0	ELECT. TYPE
F.L. PF	71.0	3/4 LD PF	62.0	1/2 LD PF	49.0	SQ CAGE IND RUN		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
6.0 LB-FT	30.5	24.5 LB-FT 408%	33.2 LB-FT 553%	45

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	0.14 LB-FT²	12 LB-FT²	15 SEC.	2	65 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	DF CL I GR C&D CL II GF	NO	NONE	JE - LEESON (ENAM)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	STANDARD 56	.875 x 1.97 IN SEK	5 IN SEF WITH 0.66 IN	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6205	6203						

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
3.962	3.01	5.751	5.936	160.346	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE					
	NONE					

DATE: 2/15/2018	BRAKE: NONE					
	NONE					
	FT-LB: NA					
	VOLTAGE: NONE					
HZ:						
UL: Y-(LEESON UL REC)						

Data Sheet

Date: 2/15/2018

122175.00



Data @ 460 V

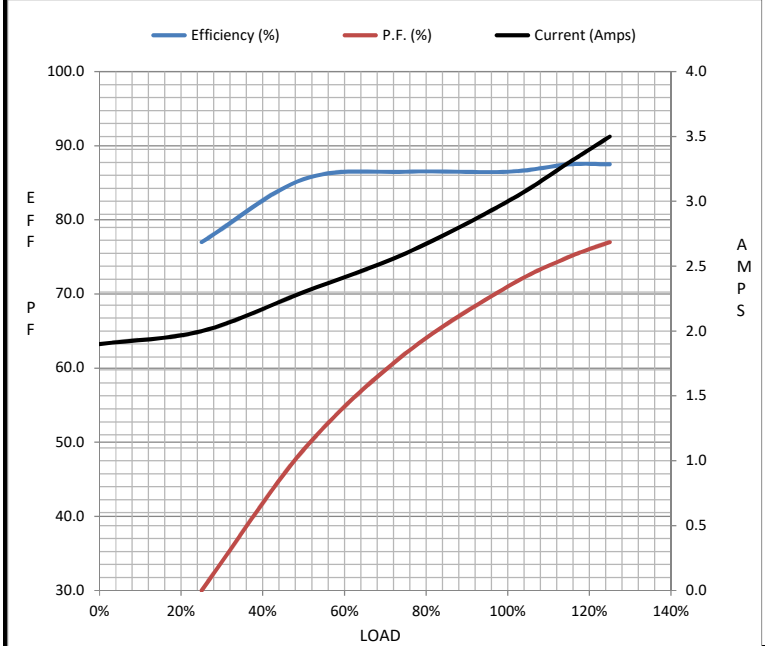
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.90	2.00	2.30	2.60	3.0	3.3	3.5	30.5
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.9	7.5	24.5
RPM	1800	1790	1780	1770	1760	1.755	1750	0
Efficiency (%)		77.0	85.5	86.5	86.5	87.5	87.5	
P.F. (%)	7.0	30.0	49.0	62.0	71.0	75.0	77.0	71.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1200	1760	1800
Current (Amps)	30.5	29.5	19.5	3.0	1.90
Torque (ft-lb)	24.5	23.7	33.2	6.0	0.00

Information Block				
HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	EPFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.14 Lb-Ft <sup>2</sup>			
Ref Wdg	ZT4255 R9			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-104246LE-931			
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.9620	3.0100	5.7510	5.9360	160.3460



Speed - Torque Curve

