

PRODUCT INFORMATION PACKET



Model No: 121916.00

Catalog No: 121916.00

Explosion Proof Motor, 2 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
145T Frame, EPFC

Operational at 208-230/460 V @60HZ



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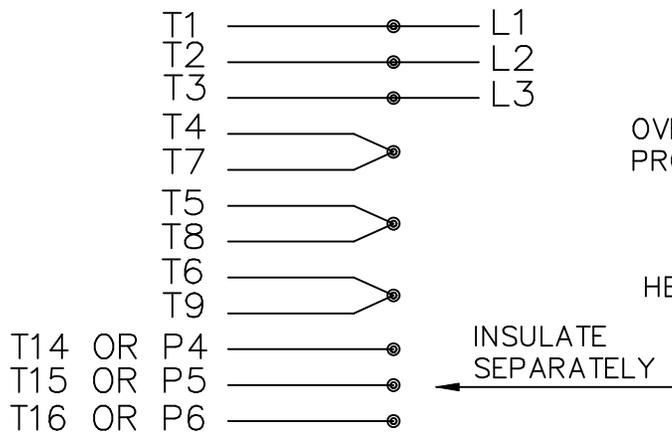
Nameplate Specifications

Phase	3	Output HP	2 & 2 Hp
Output KW	1.5 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	3500 & 2870 rpm	Service Factor	1.00 & 1.00
Frame	145T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Efficiency	85.5 & 84 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	5/2.5 & 6/3 A	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	K
Drive End Bearing Size	205	Opp Drive End Bearing Size	203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

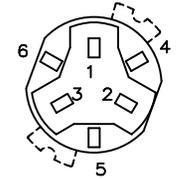
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	7.1 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	16.50 in
Frame Length	9.31 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	EE7335-LE	Outline Drawing	104585LE-931

HIGH VOLTAGE CONNECTIONS

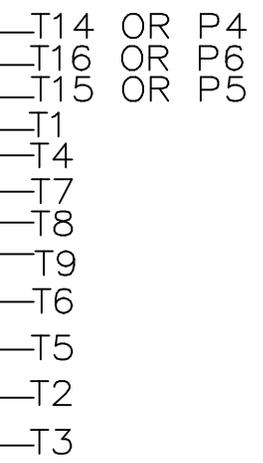
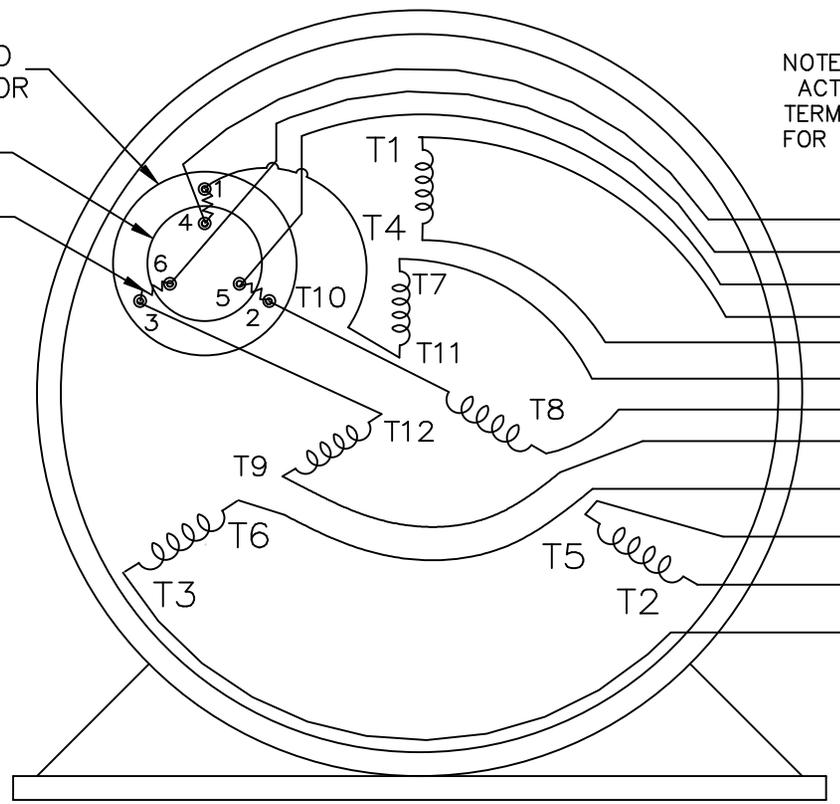


THREE PHASE – DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

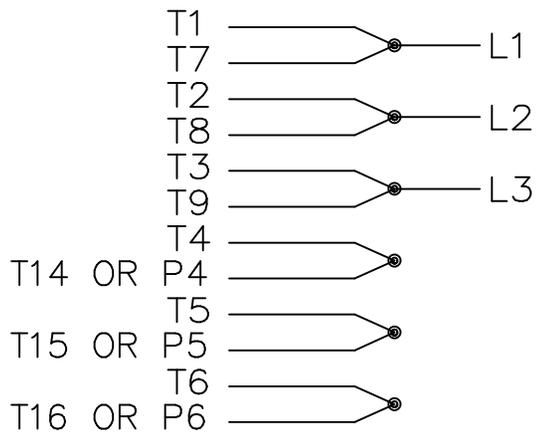


NOTE:
 ACTUAL PROTECTORS
 TERMINAL LOCATIONS
 FOR LEAD CONNECTIONS

OVERLOAD PROTECTOR
 DISC
 HEATER



LOW VOLTAGE CONNECTIONS



VIEW OF TERMINAL END

T2K
 T4D
 T6AN

				TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 04-20-2005					
				DEC.	INCHES		CHK ML 04-20-2005					
				.X	± -		APPD MJS 04-20-2005					
				.XX	± -		SCALE					
				.XXX	± -		REF					
				.XXXX	± -	MAT'L.						
				ANG	± -	FINISH						
NO.	REVISION	BY & DATE	CHK	ANG	± -	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	04-20-2005	CAD FILE EE7335_LE		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WP			A	EE7335-LE			

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



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7335-LE
 OUTLINE: 104585LE-931
 WINDING: ZT2142

CAT #: 121916.00

R6 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	3600	3500	145T	EPFC	TFR	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	5/2.5&6/3	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	85.5	3/4 LD EFF	85.9	1/2 LD EFF	84.0	GTD EFF	84.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	86.0	3/4 LD PF	82.0	1/2 LD PF	72.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
3.0 LB-FT	21.7	9.5 LB-FT 317%	12.2 LB-FT 407%	36

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
69 dBA	78 dBA	0.07 LB-FT²	4 LB-FT²	20 SEC.	2	80 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	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						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
205	203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
4.402	3.124	6.532	5.538	208.74	0.150	ODE

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

DATE: 1/17/2018	BRAKE: NONE	
	NONE	
	NONE	
	NONE	
FT-LB: NA		
VOLTAGE: NONE		
HZ:		
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/17/2018

121916.00



Data @ 460 V

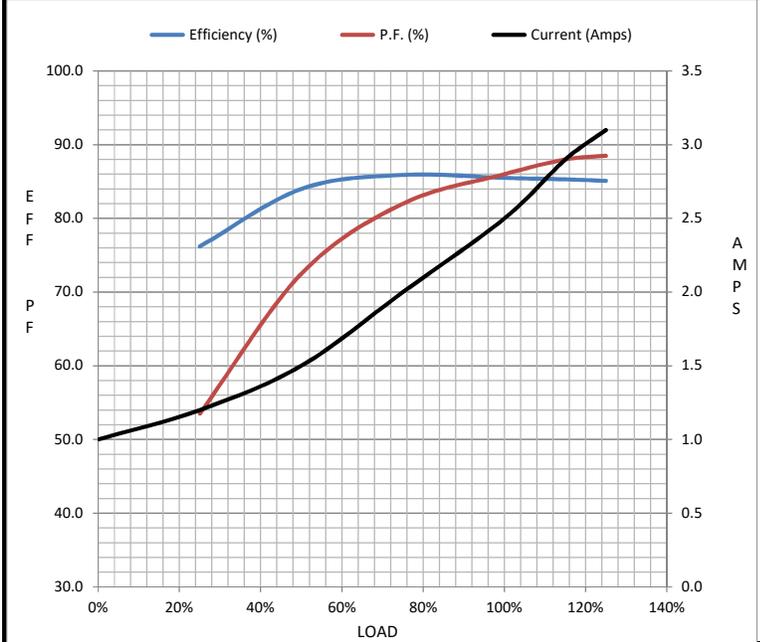
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.00	1.20	1.50	2.00	2.50	2.90	3.1	21.7
Torque (ft-lb)	0.00	0.74	1.48	2.23	3.0	3.5	3.8	9.5
RPM	3600	3575	3550	3525	3500	3,485	3470	0
Efficiency (%)		76.2	84.0	85.9	85.5	85.3	85.1	
P.F. (%)	20.0	53.5	72.5	82.0	86.0	88.0	88.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	2615	3500	3600
Current (Amps)	21.7	20.5	14.5	2.50	1.00
Torque (ft-lb)	9.5	9.4	12.2	3.0	0.00

Information Block				
HP	2.0			
Sync. RPM	3600			
Frame	145			
Enclosure	EPFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	36 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.07 Lb-Ft ²			
Ref Wdg	ZT2142 R6			
Sound Pressure @ 1M	69 dBA			
VFD Rating	NONE			
Outline Dwg	104585LE-931			
Conn. Diag	EE7335-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.4020	3.1240	6.5320	5.5380	208.7400



Speed - Torque Curve

