

# PRODUCT INFORMATION PACKET



Model No: 119436.00  
Catalog No: 119436.00  
Explosion Proof Motor, 1 & 0.75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
56C Frame, EPFC



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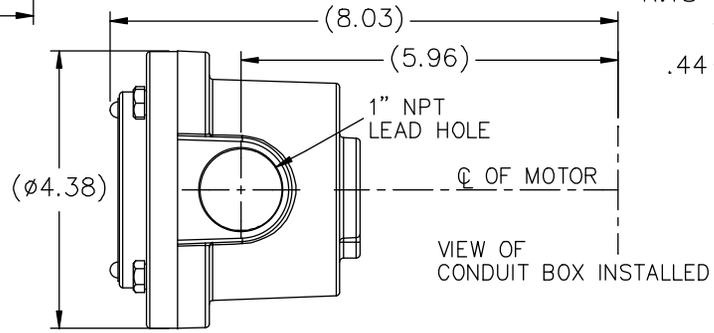
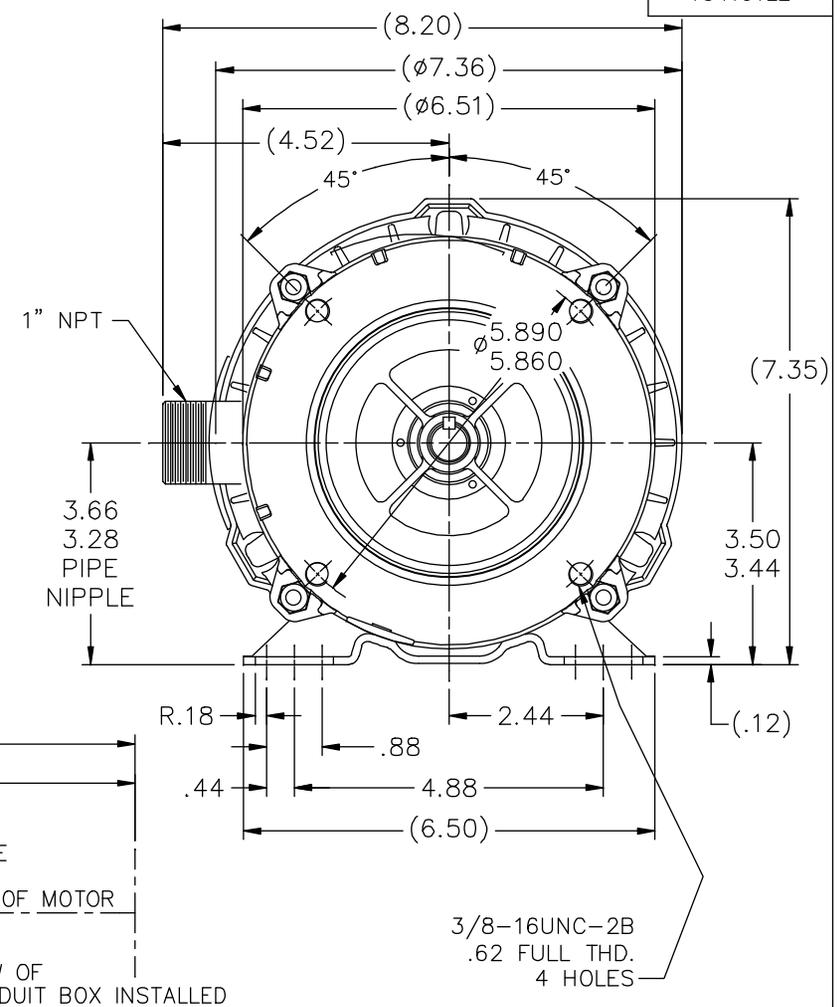
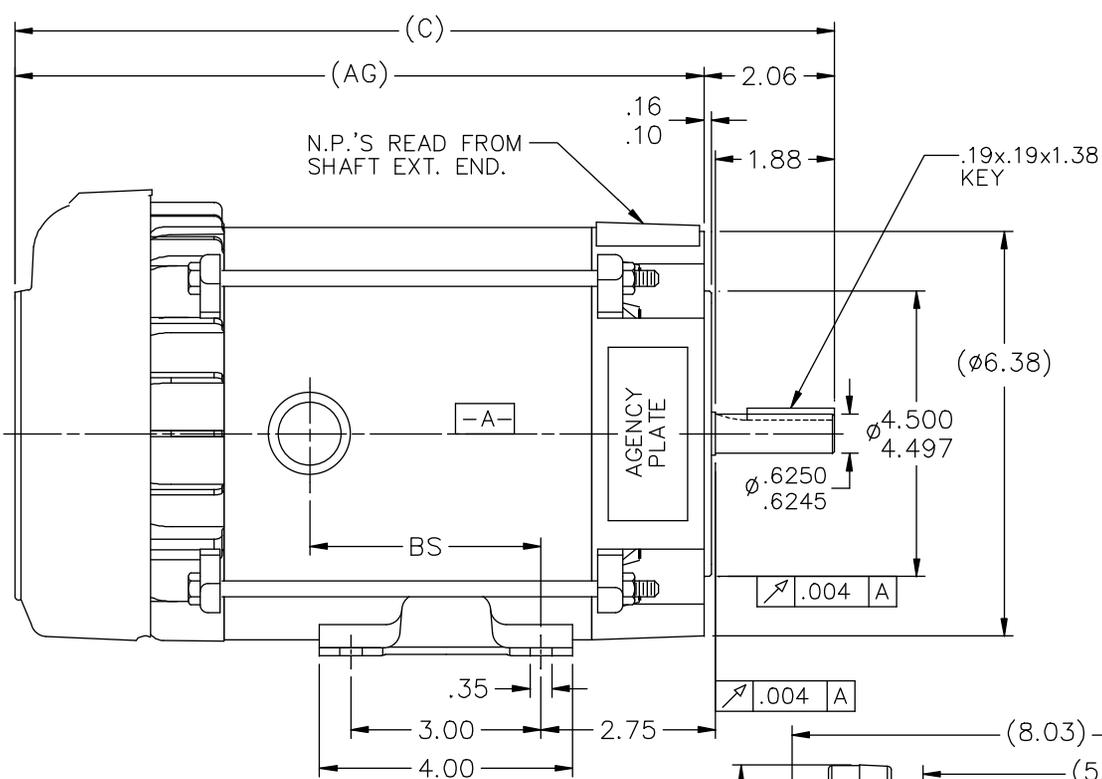


### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>1 &amp; 0.75 Hp</b>
Output KW	<b>0.75 &amp; 0.56 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3450 &amp; 2850 rpm</b>	Service Factor	<b>1.0 &amp; 1.0</b>
Frame	<b>56C</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Automatic</b>	Efficiency	<b>80 &amp; 81.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>3/1.5 &amp; 2.6/1.3 A</b>	Power Factor	<b>83.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>B</b>	KVA Code	<b>K</b>
Drive End Bearing Size	<b>6203</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

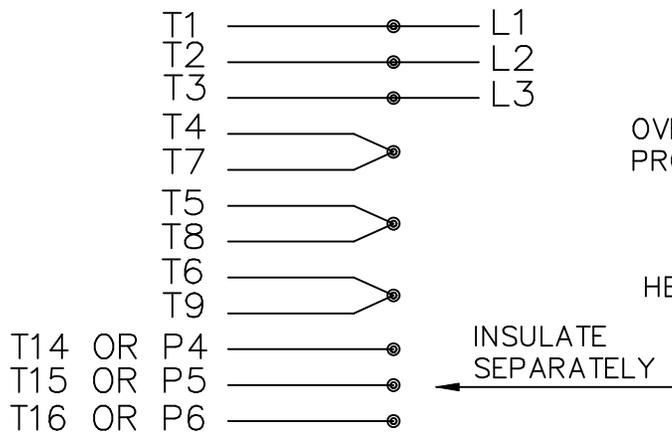
Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>19.5 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>NEMA 56</b>	Overall Length	<b>13.94 in</b>
Frame Length	<b>6.81 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>EE7335-LE</b>	Outline Drawing	<b>104191LE-681</b>



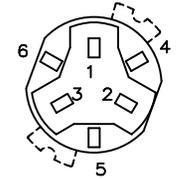
DASH	(C)	(AG)	BS		
631	13.44	11.38	4.15		
681	13.94	11.88	4.65		
731	14.44	12.38	5.15		
781	14.94	12.88	5.65		
831	15.44	13.38	6.15		
881	15.94	13.88	6.65		
931	16.44	14.38	7.15		
981	16.94	14.88	7.65		

		TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN HLB 05-29-2002	
		DEC.	INCHES			CHK	ML 05-31-2002
		.X	±.1	TITLE OUTLINE - 'C' FACE		APPD	SAS 05-31-2002
3	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/15/13	ST	.XX ±.03	SCALE	1=2
2	REVISED C'BOX PER CN 40784A	JJB	02/26/2007	ML	.XXX ±.005	REF	
1	NEW DRAWING	HLB	05-31-2002		.XXXX ±.0005	FMF	
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	CAD FILE 104191LE	SIZE	DRAWING NO. PAGE OF REV.
				DIST	WP	B	104191LE 3

HIGH VOLTAGE CONNECTIONS

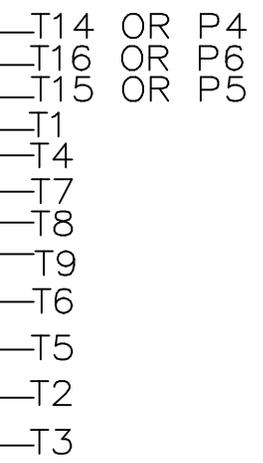
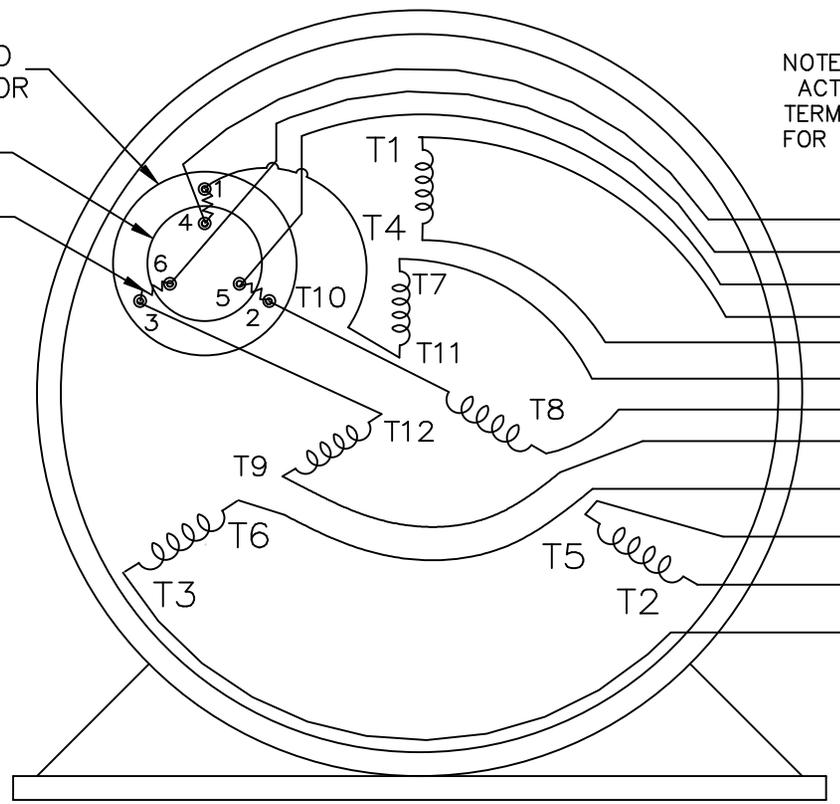


THREE PHASE – DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

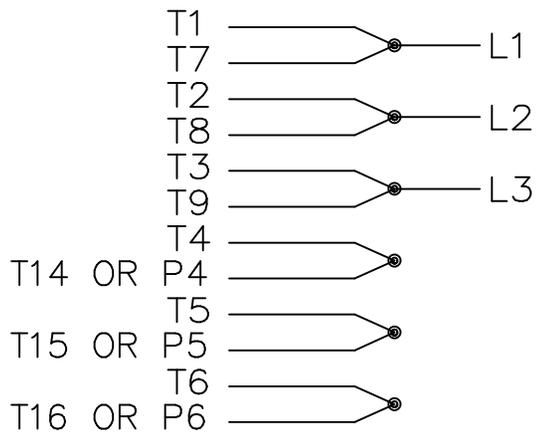


NOTE:  
 ACTUAL PROTECTORS  
 TERMINAL LOCATIONS  
 FOR LEAD CONNECTIONS

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
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				DIST	WP	DRAWING NO. EE7335-LE		PAGE OF REV.

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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7335-LE  
 OUTLINE: B-104191LE-681  
 WINDING: ZT270

CAT #: 119436.00

R14 1

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	3600	3500	56C	EPFC	TFR	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	3/1.5&2.6/1.3	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	80.0	3/4 LD EFF	78.0	1/2 LD EFF	75.0	GTD EFF	77.0	ELECT. TYPE
F.L. PF	83.5	3/4 LD PF	78.0	1/2 LD PF	67.5	SQ CAGE IND RUN		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
1.50 LB-FT	11.0	3.5 LB-FT 233%	5.3 LB-FT 353%	35

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	0.03 LB-FT²	0 LB-FT²	10 SEC.	0	32 LB.

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

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6203	6203						

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
11.332	5.652	15.08	17.608	406.12	0.150	ODE

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

DATE: 2/5/2018	BRAKE: NONE	
	NONE	
	NONE	
	NONE	
	FT-LB: NA	HZ:
	VOLTAGE: NONE	
	UL: NONE	

Data Sheet

Date: 1/17/2018

119436.00



Data @ **460 V**

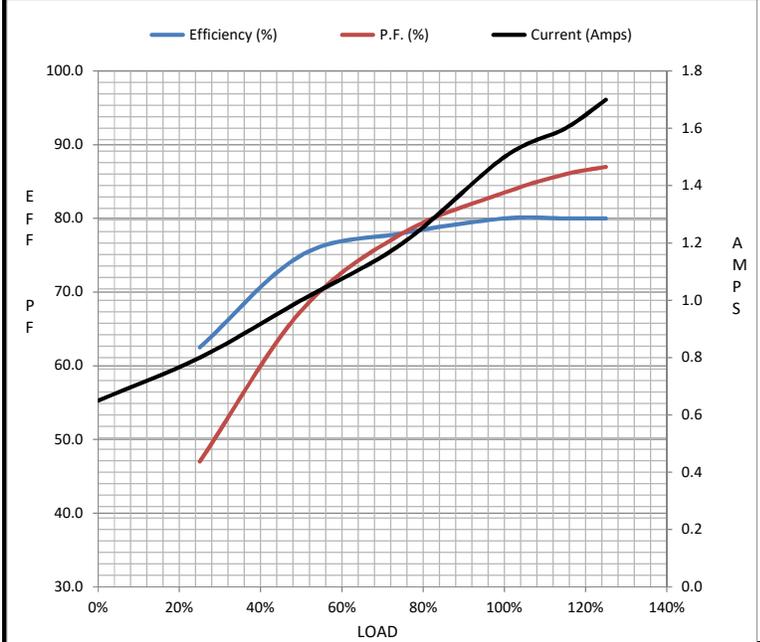
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.65	0.80	1.00	1.20	1.50	1.60	1.70	11.0
Torque (ft-lb)	0.00	0.38	0.75	1.10	1.50	1.70	1.90	3.5
RPM	3600	3570	3550	3525	3500	3,490	3480	0
Efficiency (%)		62.5	75.0	78.0	80.0	80.0	80.0	
P.F. (%)	20.0	47.0	67.5	78.0	83.5	86.0	87.0	66.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2830	3500	3600
Current (Amps)	11.0	10.0	7.0	1.50	0.65
Torque (ft-lb)	3.5	3.2	5.3	1.50	0.00

Information Block				
HP	1.0			
Sync. RPM	3600			
Frame	143			
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	35 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.03 Lb-Ft <sup>2</sup>			
Ref Wdg	ZT270 R14			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	B-104191LE-681			
Conn. Diag	EE7335-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
11.3320	5.6520	15.0800	17.6080	406.1200



Speed - Torque Curve

