

PRODUCT INFORMATION PACKET



Model No: 119428.00

Catalog No: 119428.00

Explosion Proof Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM,
56C Frame, EPFC



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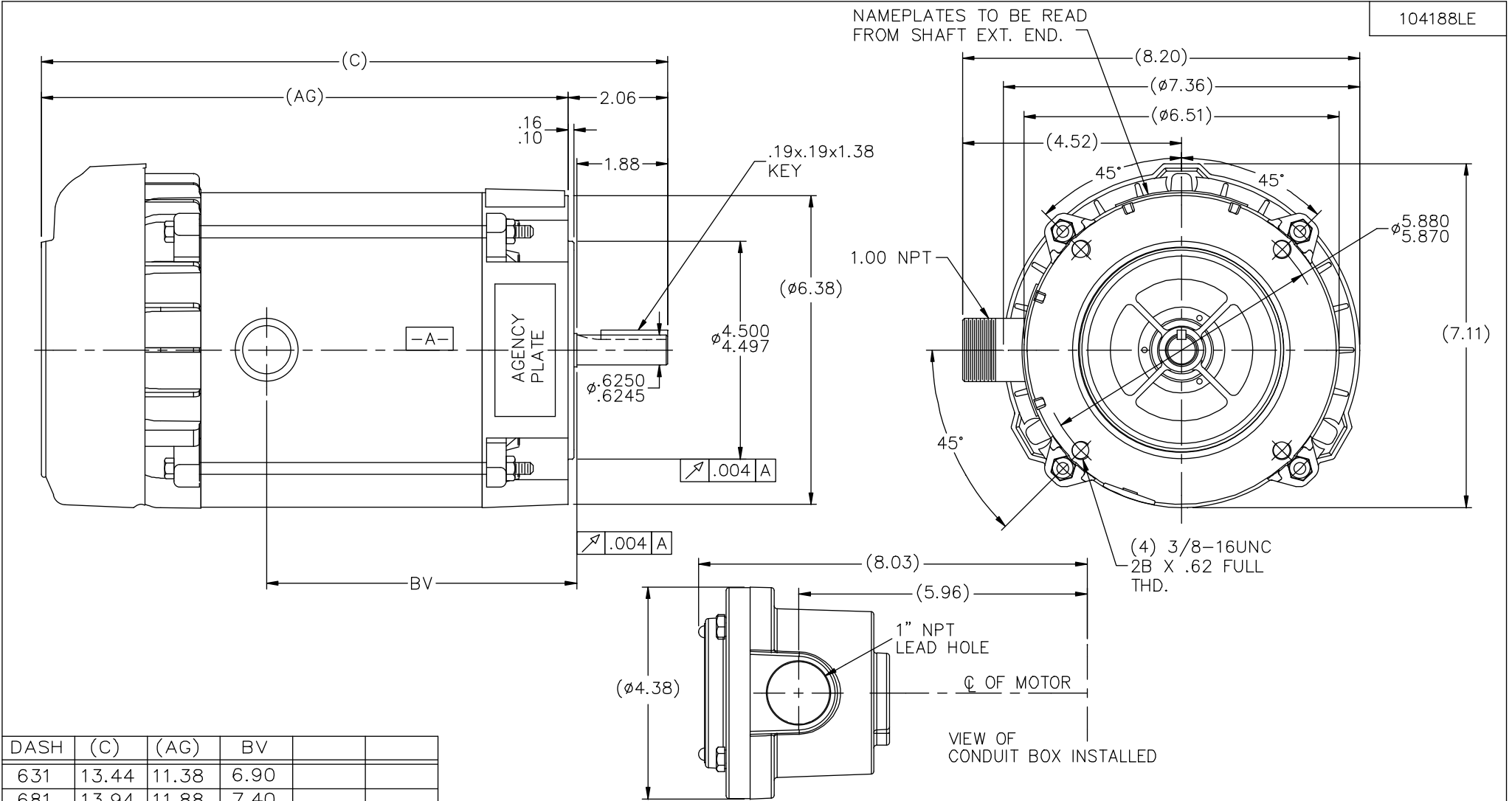


Nameplate Specifications

Phase	3	Output HP	1.50 & 1 Hp
Output KW	1.1 & 0.75 kW	Voltage	208-230/460 & 190/380 V
Speed	3450 & 2850 rpm	Service Factor	1.0 & 1.0
Frame	56C	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Efficiency	84 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	4.2-4/2 & 3.4/1.7 A	Power Factor	83.5
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	M
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
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

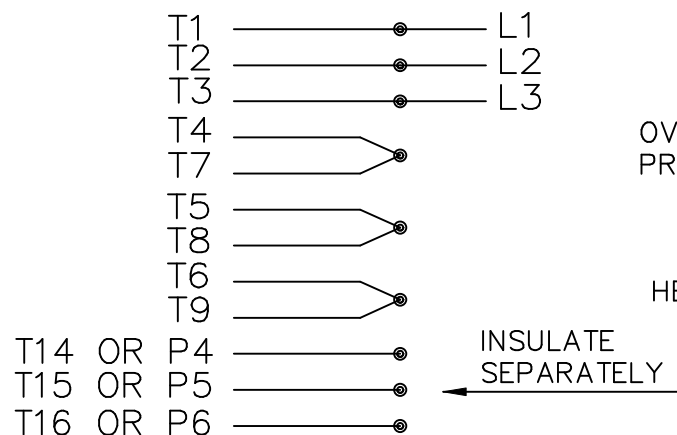
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	9.27 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	14.94 in
Frame Length	7.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	EE7335-LE	Outline Drawing	104188LE-781



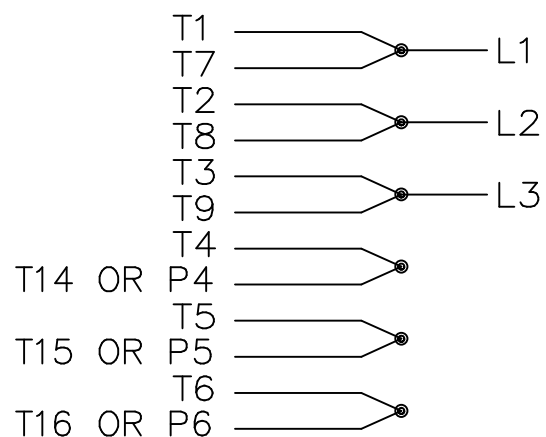
DASH	(C)	(AG)	BV		
631	13.44	11.38	6.90		
681	13.94	11.88	7.40		
731	14.44	12.38	7.90		
781	14.94	12.88	8.40		
831	15.44	13.38	8.90		
881	15.94	13.88	9.40		
931	16.44	14.38	9.90		
981	16.94	14.88	10.40		

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN RJW 06-22-2007			
				DEC.	INCHES			CHK	ML	06-22-2007	
				.X	±.1			APPD	GK	06-22-2007	
				.XX	±.03				SCALE	17=32	
				.XXX	±.005				REF		
01	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/10/13	ST	.XXXX ±.0005		TITLE OUTLINE - 'C' FACE 56 FR. - EXP. PR.		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	06-22-2007	CAD FILE 104188LE		SIZE	DRAWING NO.	PAGE	OF
				DIST	WP			B	104188LE		01

HIGH VOLTAGE CONNECTIONS



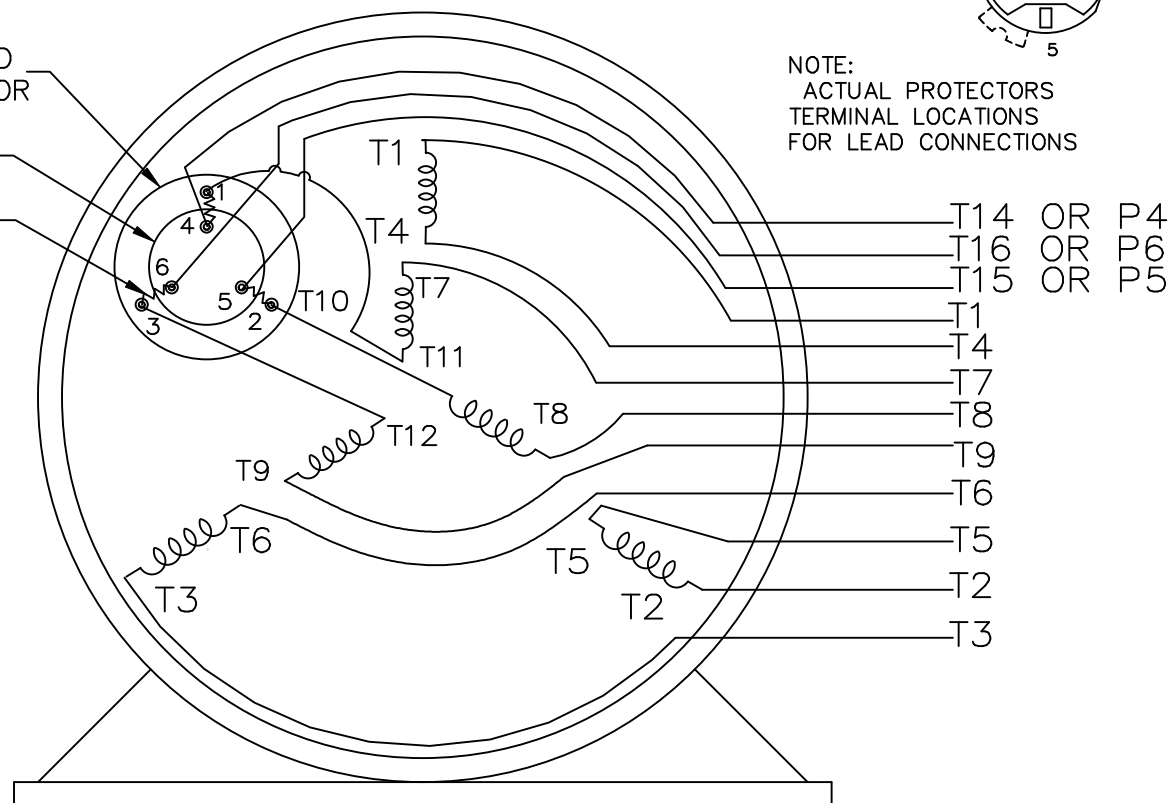
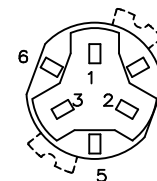
LOW VOLTAGE CONNECTIONS

THREE PHASE – DUAL VOLTAGE MOTOR
WITH OVERLOAD PROTECTOROVERLOAD
PROTECTOR

DISC

HEATER

NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD 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	± -		TITLE CONNECTION DIAGRAM	REF			
				.XXXX	± -		3Ø- DUAL VOLTAGE W/OVERLOAD PROTECTOR	FMF			
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	MAT'L.	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: B-104188LE-781
WINDING: ZT2141

CAT #: 119428.00

R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	3600	3515	56C	TEFC	TFR	M	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	4.2-4/2&3.4/1.7	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	84.0	3/4 LD EFF	84.8	1/2 LD EFF	82.3	GTD EFF	82.5	ELECT. TYPE
F.L. PF	83.5	3/4 LD PF	77.8	1/2 LD PF	67.2			SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
2.20 LB-FT	19.4	7.3 LB-FT 332%	9.6 LB-FT 436%	38

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
69 dBA	78 dBA	0.05 LB-FT²	3 LB-FT²	20 SEC.	2	55 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	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
1.419	0.946	2.318	2.129	79.937	0.150	ODE

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

DATE: 1/29/2018	BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ: UL: NONE
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Data Sheet

Date: 1/29/2018

119428.00



Data @ 460 V

Motor Load Data

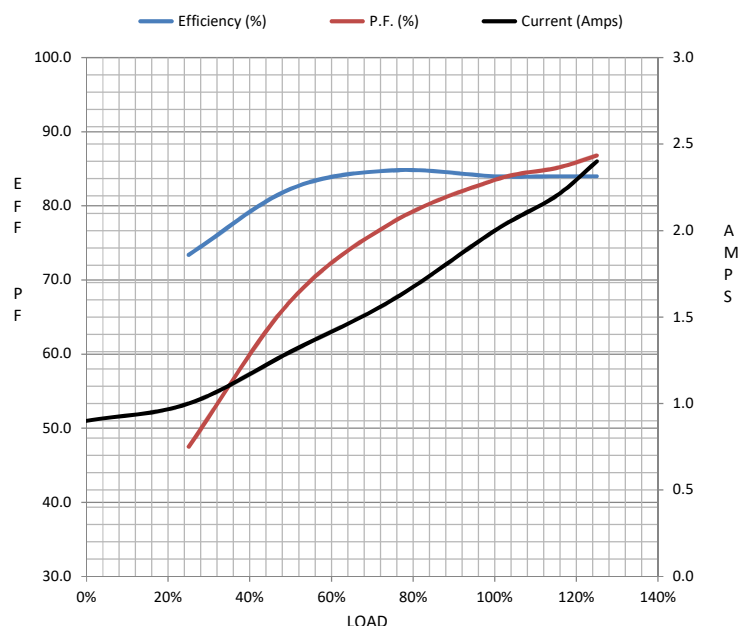
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.90	1.00	1.30	1.60	2.00	2.20	2.40	19.4	
Torque (ft-lb)	0.00	0.60	1.10	1.70	2.20	2.60	2.80	7.3	
RPM	3600	3575	3555	3535	3515	3,500	3485	0	
Efficiency (%)		73.4	82.3	84.8	84.0	84.0	84.0		
P.F. (%)	17.0	47.5	67.2	77.8	83.5	85.1	86.8	58.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	650	2815	3515	3600
Current (Amps)	19.4	18.6	12.1	2.00	0.90
Torque (ft-lb)	7.3	6.1	9.6	2.20	0.00

Information Block

HP	1.5			
Sync. RPM	3600			
Frame	143			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	38	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.05	Lb-Ft²		
Ref Wdg	ZT2141 R1			
Sound Pressure @ 1M	69	dBA		
VFD Rating	NONE			
Outline Dwg	B-104188LE-781			
Conn. Diag	EE7335-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.4190	0.9460	2.3180	2.1290	79.9370



Speed - Torque Curve

