

PRODUCT INFORMATION PACKET

Model No: 119427.00

Catalog No: 119427.00

Explosion Proof Motor, 1.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, EPFC



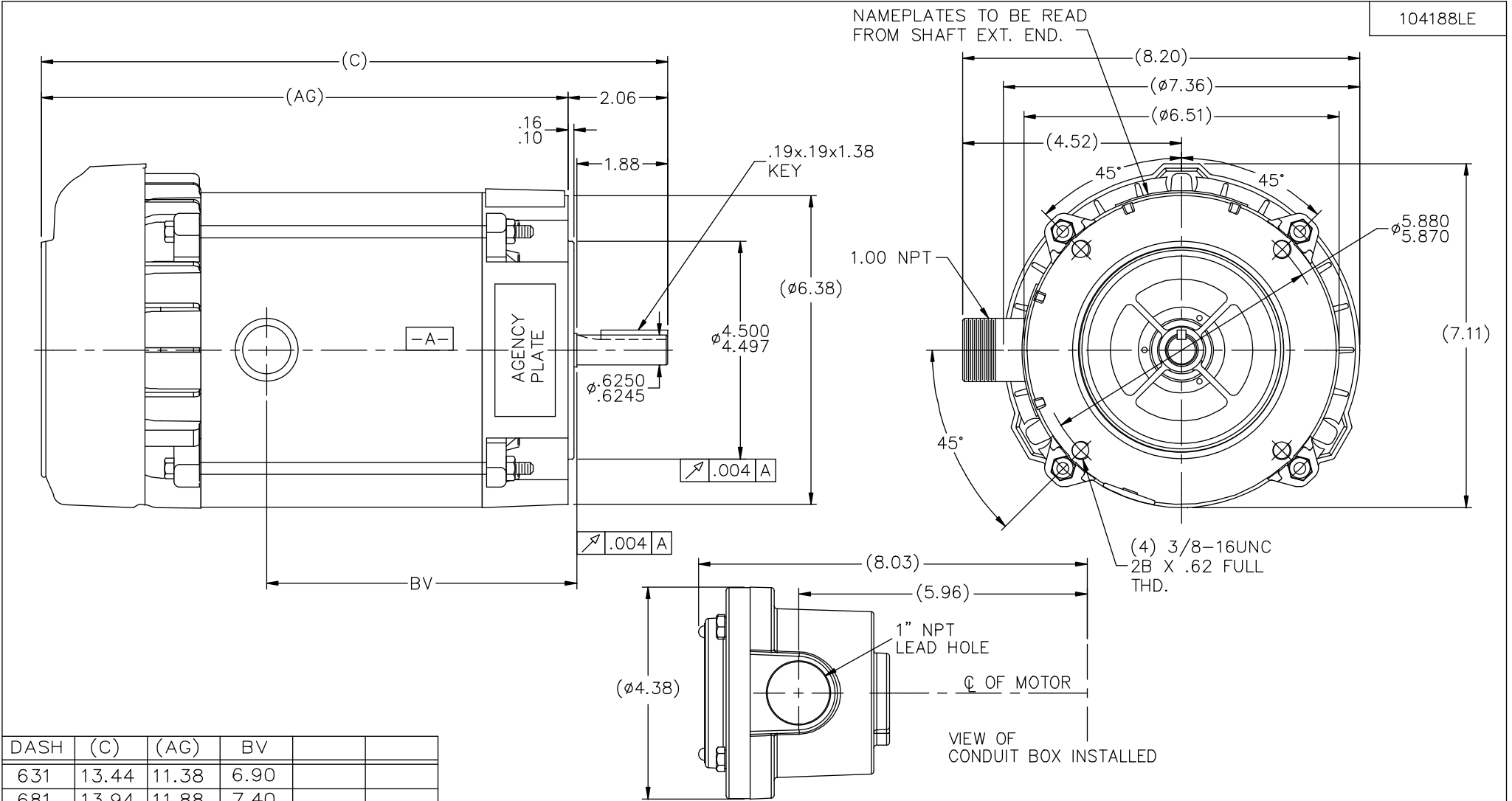
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Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.6/2.3 A	Speed	1725 rpm
Service Factor	1	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	P
Frame	56C	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3C	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	7.9 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	15.94 in
Frame Length	8.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7335LE	Outline Drawing	104188LE-881



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



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7335LE
OUTLINE: B-104188LE-881
WINDING: ZT4256

CAT #: 119427.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1800	1755	56C	TEFC	TFR	P	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	4.6/2.3&5.4/2.7	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	85.5	1/2 LD EFF	82.5	GTD EFF	84.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	71.0	3/4 LD PF	62.5	1/2 LD PF	49.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
4.5 LB-FT	24.0	21.2 LB-FT 471%	26.0 LB-FT 578%	35

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	0.14 LB-FT²	10 LB-FT²	20 SEC.	2	50 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	BLUE (POWDER)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
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
4.838	3.78	7.125	7.163	189.605	0.150	ODE

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

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

Data Sheet

Date: 1/17/2018

119427.00



Data @ 460 V

Motor Load Data

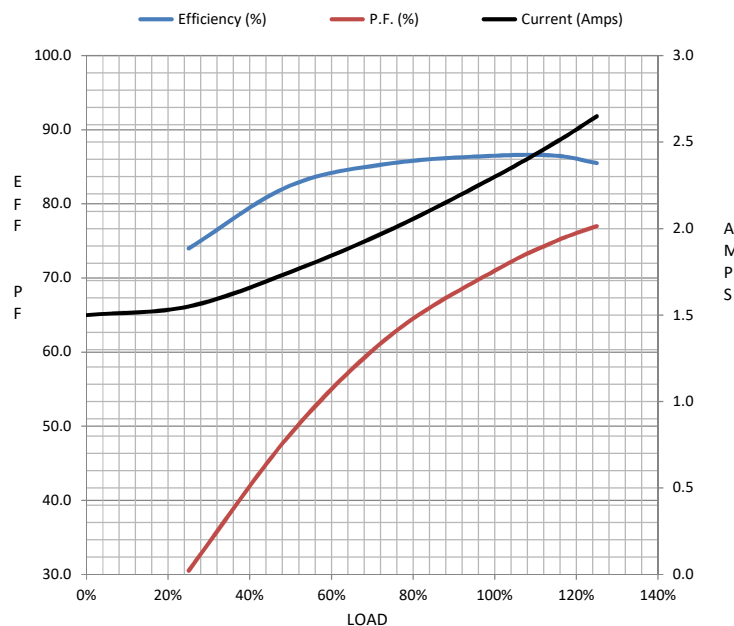
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0	
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2	
RPM	1800	1790	1780	1765	1755	1.750	1745	0	
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5		
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1190	1755	1800
Current (Amps)	24.0	23.3	16.0	2.30	1.50
Torque (ft-lb)	21.2	20.2	26.0	4.5	0.00

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.14	Lb-Ft²		
Ref Wdg	ZT4256 FR			
Sound Pressure @ 1M	62	dBA		
VFD Rating	NONE			
Outline Dwg	B-104188LE-881			
Conn. Diag	A-EE7335LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed - Torque Curve

