

PRODUCT INFORMATION PACKET

Model No: 119434.00

Catalog No: 119434.00

Explosion Proof Motor, 2 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 56J Frame, EPFC



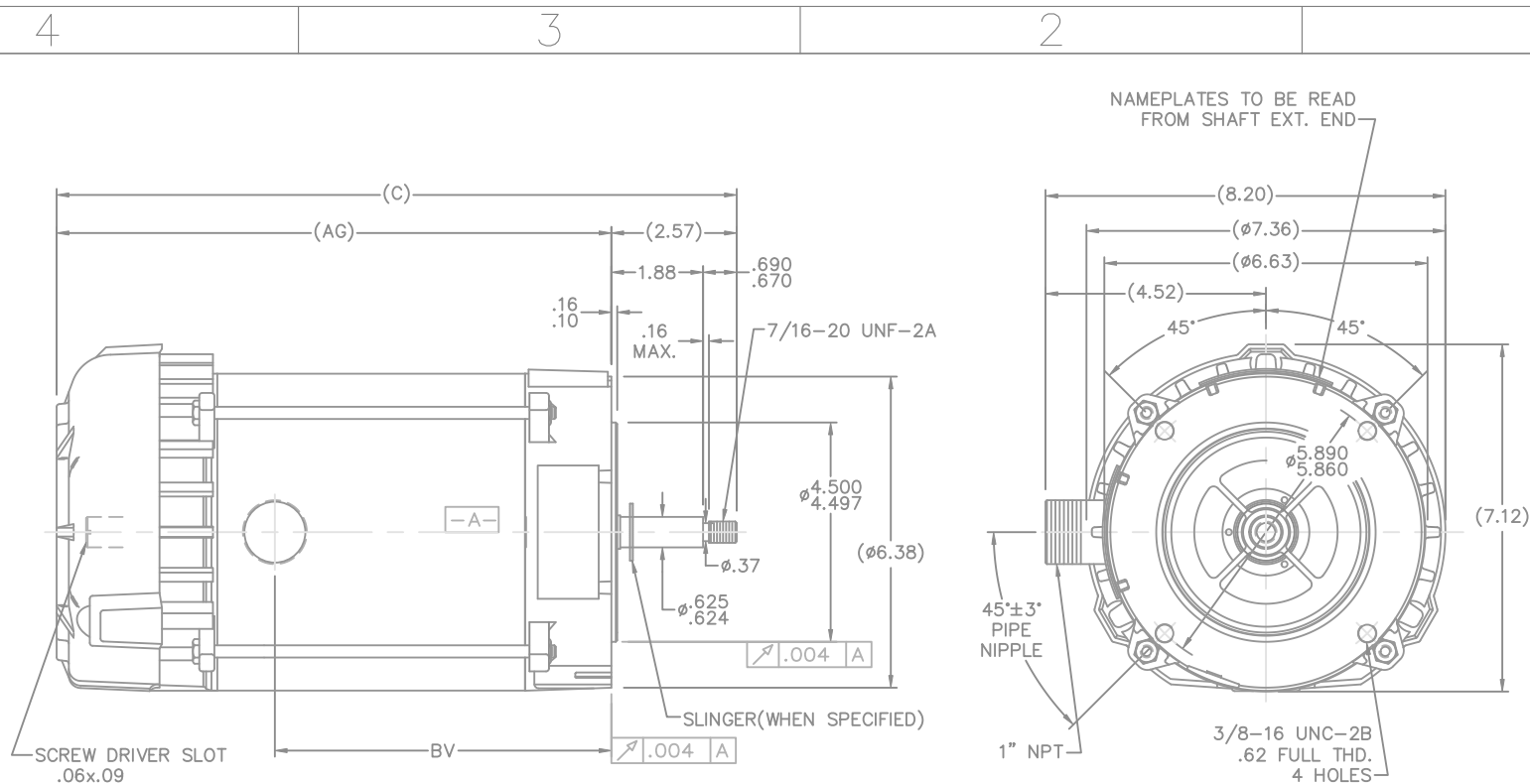
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Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	5.0/2.5 A	Speed	3450 rpm
Service Factor	1	Phase	3
Efficiency	85.5 %	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	K
Frame	56J	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	7.1 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	J	Overall Length	16.95 in
Frame Length	9.31 in	Shaft Diameter	0.625 in
Shaft Extension	2.44 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	EE7335	Outline Drawing	104213LE-931

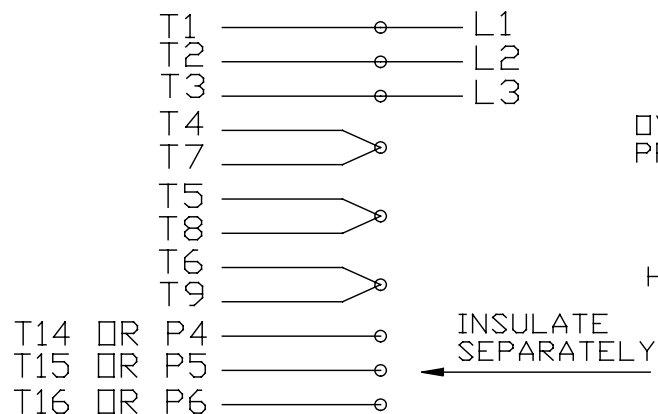


DASH	C	AG	BV
631	13.95	11.38	6.715
681	14.45	11.88	7.215
731	14.95	12.38	7.715
781	15.45	12.88	8.215
831	15.95	13.38	8.715
881	16.45	13.88	9.215
931	16.95	14.38	9.715
981	17.45	14.88	10.215

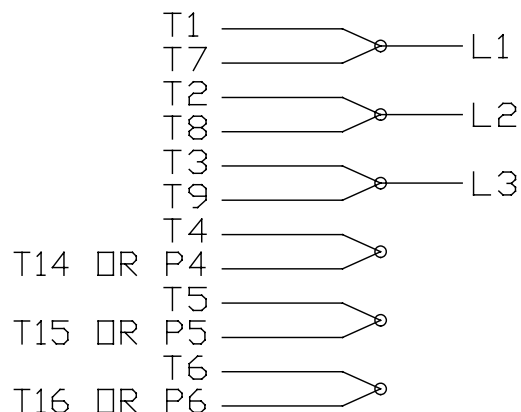
DRAWING REVISION D	REVISION BY D. VALENCIANO	DATE 05-19-2021	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY: RJW	 Regal Beloit America, Inc.
ECO ECR-0207998	APPROVED BY D. VALENCIANO	DATE 05-19-2021	DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DATE: 06-22-2007	
ECO DESCRIPTION UPDATED			REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381] X 45° CORNER FILLETS R.02 [51] MACHINED SURFACES .125/ .3/2 mm SHOWN IN [BRACKETS]	APPROVED BY: ML	DESCRIPTION OUTLINE 56FR. - C'FACE-EXP. PR.
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				REFERENCE	PROCESS/FINISH
				SIZE DWG NO B	104213LE
					SHEET 1

EE7335

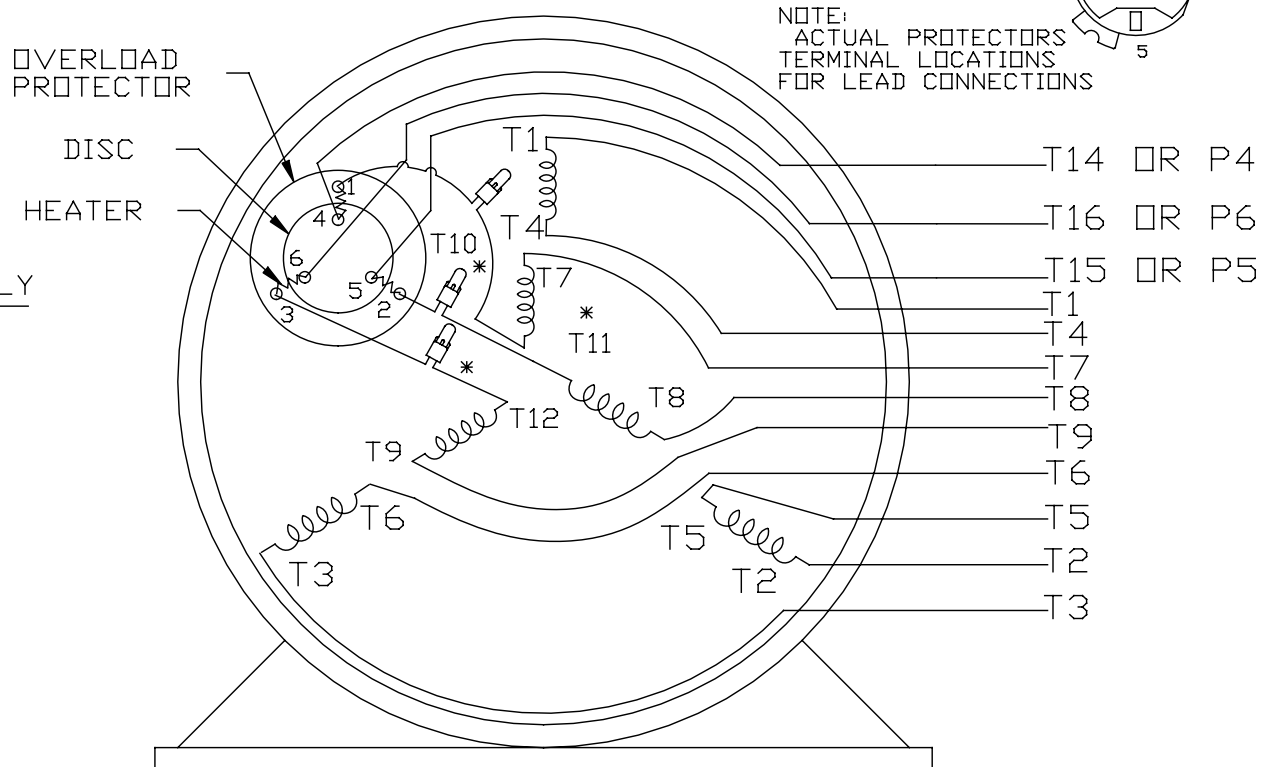
HIGH VOLTAGE CONNECTIONS



LOW VOLTAGE CONNECTIONS

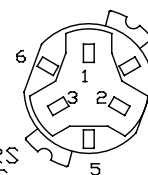


THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR



VIEW OF TERMINAL END

NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS



* USE PRESSURE CONNECTORS FOR MT2 PLANT ONLY

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN KL 08-09-1993		
17	CHANGED LOGO FROM MARATHON TO REGAL	KIR 02/16/16	AB	DEC.	INCHES		CHK ML 08/10/1993		
16	PRESSURE CONNECTORS QUANTITY WAS 6	PVR 10/29/13	GR	.X	±.1		APPD GK 08/10/1993		
15	PRESSURE CONNECTORS ADDED	GR 03/04/13	SR	.XX	±.01		TITLE CONNECTION DIAGRAM	SCALE 1=1	
14	ADDED ACTUAL PROCECTOR VIEW CN 17481	KL 05/18/94		.XXX	±.005	3Ø-DUAL VOLT WITH OVERLOAD PROTECTOR	REF		
13	REDRAWN IN AUTO CAD	KL 08/11/93		.XXXX	±.0005	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2*	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 EE7335	SIZE	DRAWING NO.	REV	
			DIST			A	EE7335	17	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7335
OUTLINE: B-104213LE-931
WINDING: ZT2142

CAT #: 119434.00

R6 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	3600	3500	56J	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
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	JET PUMP	NONE	NONE	416 STAINLESS (C-503)	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
4.402	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
		NONE PPR

DATE: 1/29/2018	BRAKE: NONE	
	FT-LB: NONE	NONE
	VOLTAGE: NA	NONE
	UL: Y-(LEESON UL REC)	HZ:

Data Sheet

Date: 1/29/2018

119434.00



Data @ 460 V

Motor Load Data

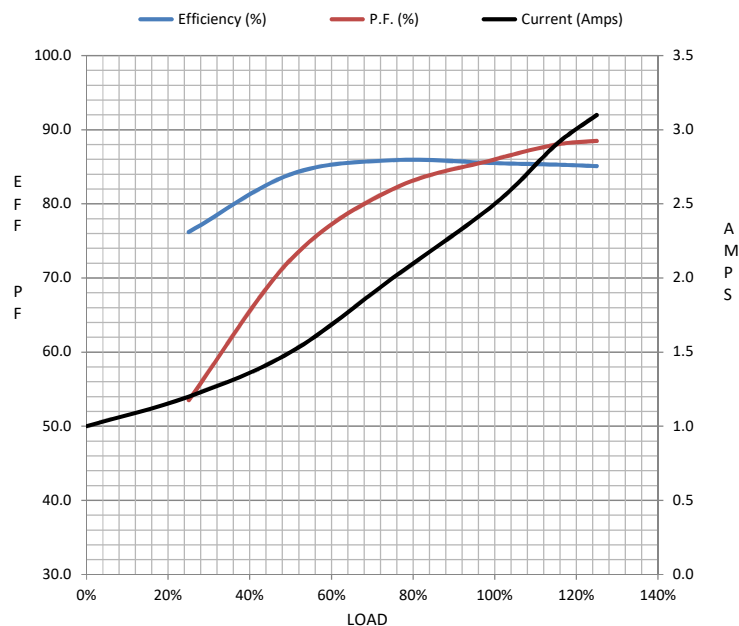
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.00	1.20	1.50	2.00	2.50	2.90	3.1	21.7	
Torque (ft-lb)	0.00	0.74	1.48	2.23	3.0	3.5	3.8	9.5	
RPM	3600	3575	3550	3525	3500	3,485	3470	0	
Efficiency (%)		76.2	84.0	85.9	85.5	85.3	85.1		
P.F. (%)	20.0	53.5	72.5	82.0	86.0	88.0	88.5	42.0	

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 wk²	0.07	Lb-Ft²		
Ref Wdg	ZT2142 R6			
Sound Pressure @ 1M	69	dBA		
VFD Rating	NONE			
Outline Dwg	B-104213LE-931			
Conn. Diag	EE7335			
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

