

PRODUCT INFORMATION PACKET



Model No: A6T34XC51A

Catalog No: 119431.00

..2HP..3600RPM.56C.EPFC.230/460V.3PH.60HZ.CONT.40C.1.00SF.C FACE.....GENERAL
PURPOSE.AUTO.....

Explosion Proof



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REGAL

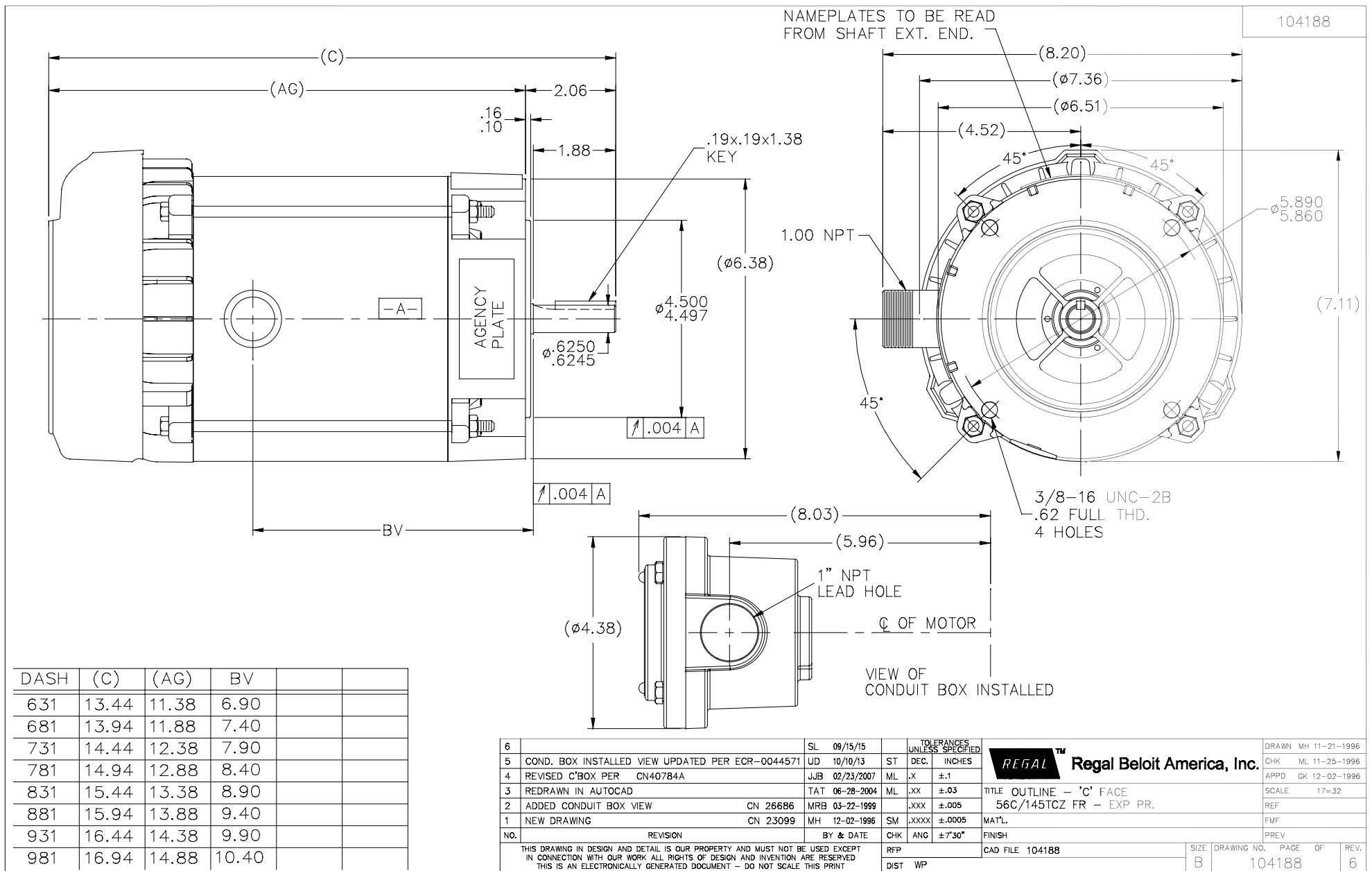


Nameplate Specifications

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	1.15	Phase	3
Efficiency	85.5 %	Duty	Continuous
Insulation Class	B	Design Code	B
KVA Code	K	Frame	56C
Enclosure	Explosion Proof Fan cooled	Overload Protector	Automatic
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	54		

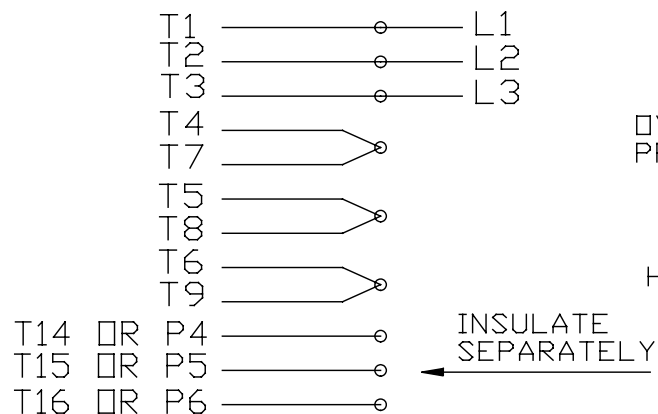
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	16.44 in	Frame Length	9.31 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	B-104188-931	Connection Diagram	A-EE7335

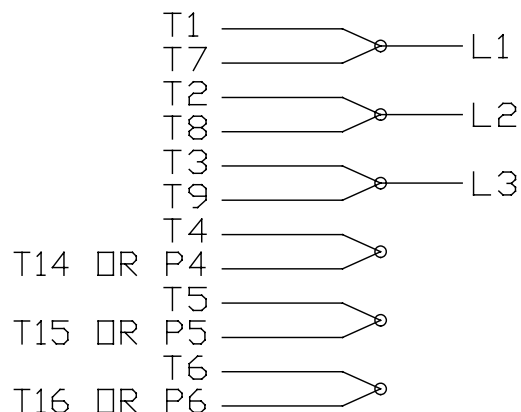


EE7335

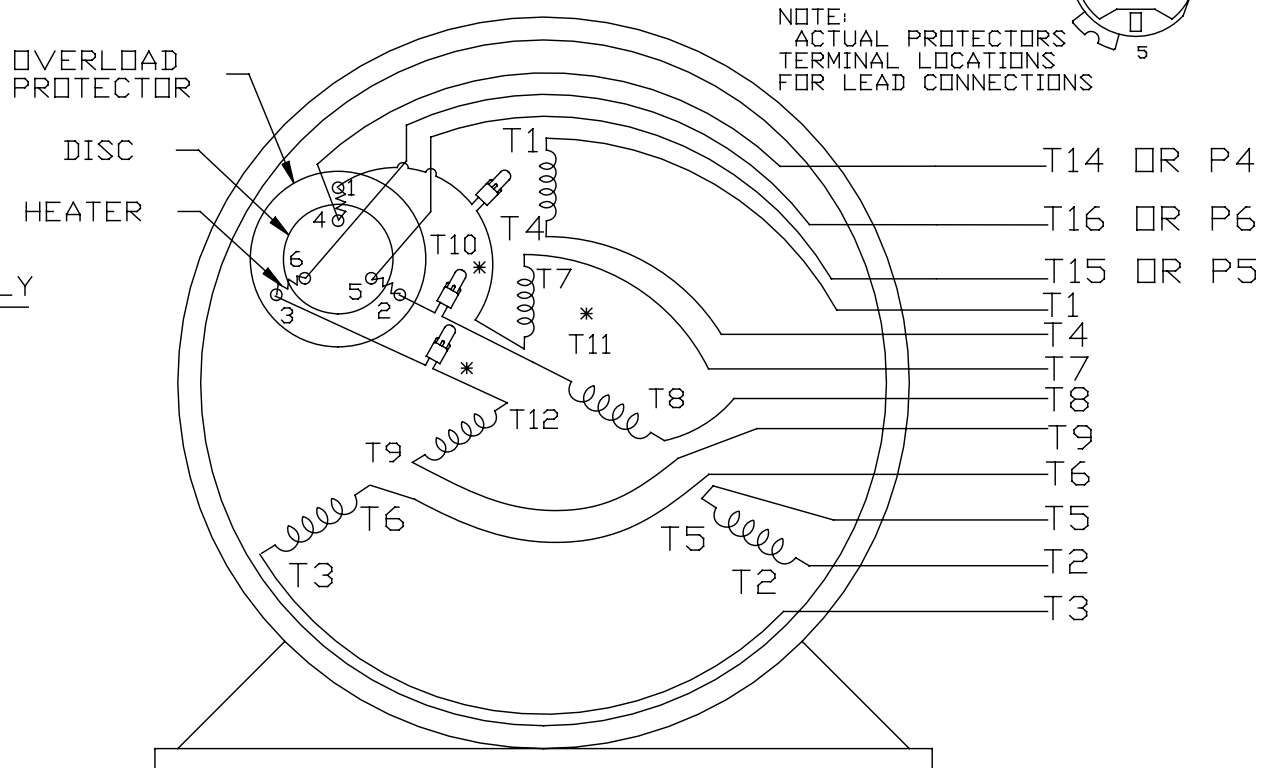
HIGH VOLTAGE CONNECTIONS



LOW VOLTAGE CONNECTIONS



THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR



VIEW OF TERMINAL END

* 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					
14	ADDED ACTUAL PROCECTOR VIEW CN 17481	KL 05/18/94		.XXX	±.005	TITLE CONNECTION DIAGRAM 3Ø-DUAL VOLT WITH OVERLOAD PROTECTOR	SCALE 1=1	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: A-EET7335
OUTLINE: B-104188-931
WINDING: ZT12142

FR 3

CAT #: 119431.00

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
2	1.5	3600	3500	56C	TEFC	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		ELECT. TYPE				
F.L.PF		86.0	3/4 LD PF	82.0	1/2 LD PF	72.5	84.0		SQ CAGE IND RUN				
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	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	DE CL I GR C&D CL II GR	NO	NONE	BLUE (POWDER)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE CODE								
BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL		
6205	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: 1/17/2018		BRAKE: NONE	
		NONE	
		FT-LB: NA	
		NONE	
		VOLTAGE: NONE	
		UL: Y(LEESON UL REC)	
		HZ:	

Data Sheet

Date: 1/17/2018

119431.00



Data @ 460 V

Motor Load Data

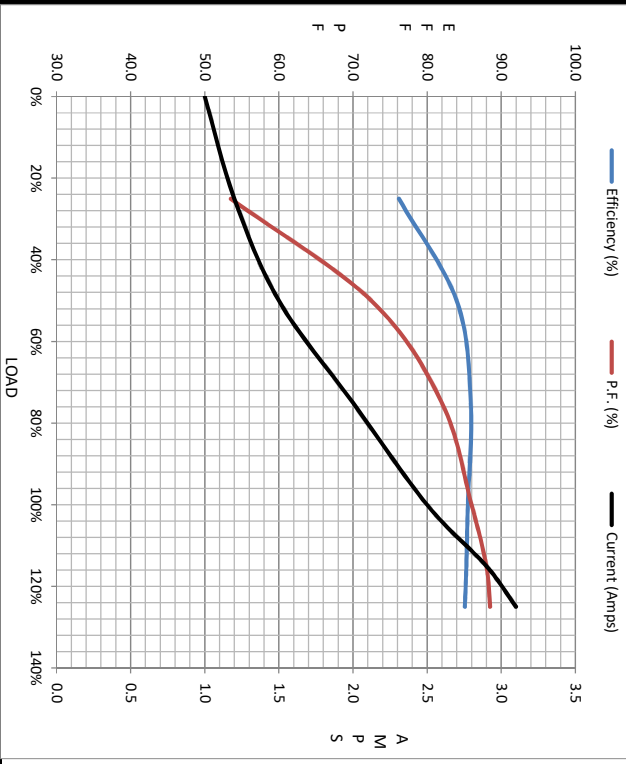
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.00	1.20	1.50	2.00	2.50	2.90	3.1	21.7	
Torque (ft-lb)	0.00	0.74	1.48	2.23	3.0	3.5	3.8	9.5	
RPM	3600	3575	3550	3525	3500	3485	3470	0	
Efficiency (%)		76.2	84.0	85.9	85.5	85.3	85.1		
P.F. (%)	20.0	53.5	72.5	82.0	86.0	88.0	88.5	42.0	

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		TEFC		
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		
Ret Wdg		Z12142 FR		
Sound Pressure @ 1M		69 dBA		
VFD Rating		NONE		
Outline Dwg		B-104189-931		
Conn. Diag		A-EE7335		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.4020	3.1240	6.5320	5.5380	208.7/400



Speed -Torque Curve

