

PRODUCT INFORMATION PACKET



Model No: C6T34FC94C
Catalog No: 116751.00
..2HP..3490RPM.56.TEFC.230/460V.3PH.60HZ.CONT.40C.1.25SF.C
FACE.C6T34FC94C.....WATTSaver.AUTOMATIC.....
Totally Enclosed Fan Cooled (TEFC)



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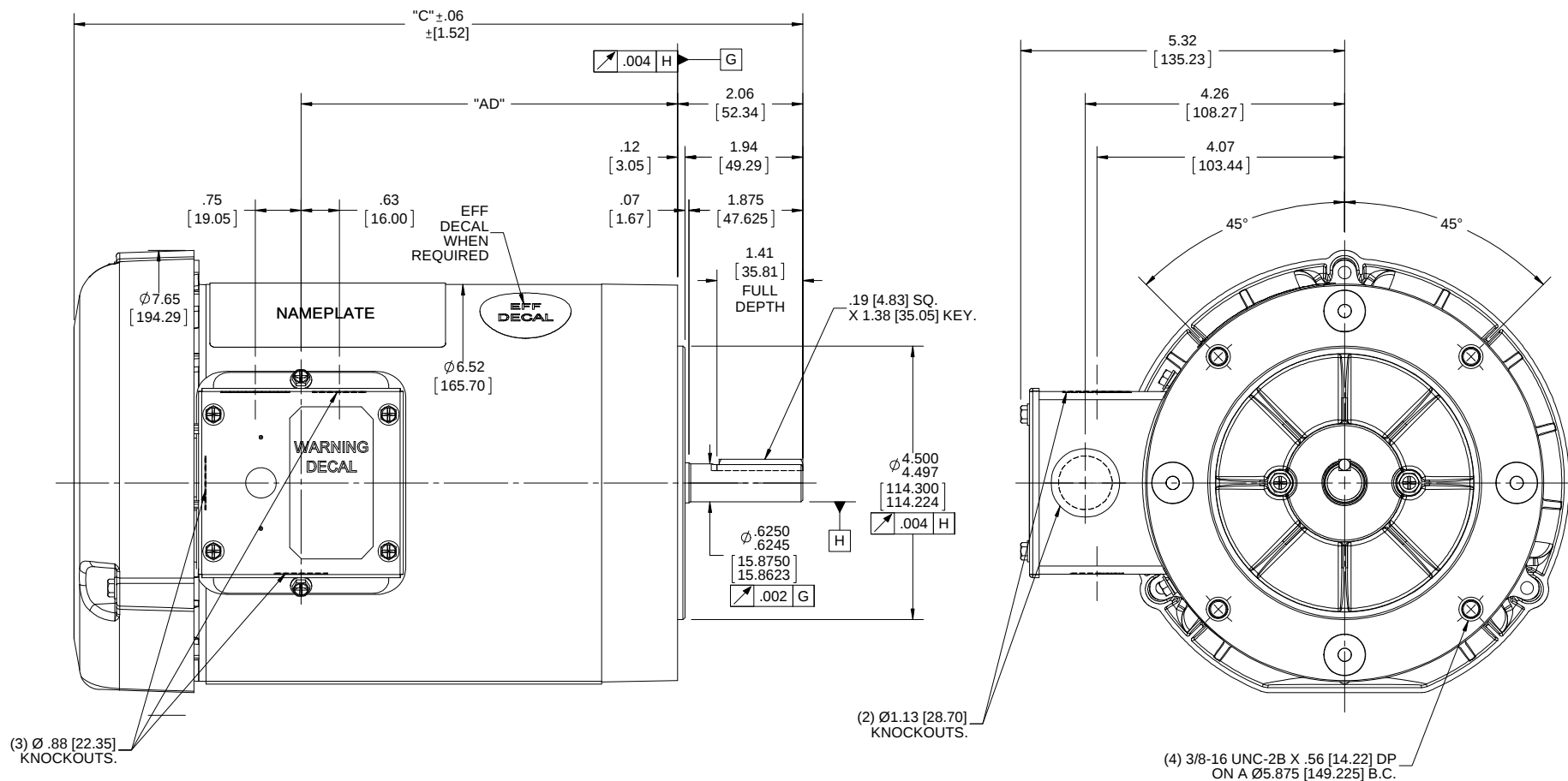
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.8/2.4 A	Speed	3490 rpm
Service Factor	1.25	Phase	3
Efficiency	85.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	L	Frame	56C
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	43		

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	12.98 in	Frame Length	7.50 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	029091-750	Connection Diagram	005010.20

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NOTE:-
1) GASKETS THROUGHOUT.

DASH NO.	"C"	"AD"
650	11.99 [304.55]	6.19 [157.23]
700	12.49 [317.25]	6.69 [169.93]
750	12.99 [329.95]	7.19 [182.63]
800	13.49 [342.65]	7.69 [195.33]

DRAWING REVISION	REVISION BY	DATE
ECO ECO-0140840	APPROVED BY	DATE
ECO DESCRIPTION OUTLINE CONVERSION PROJECT		
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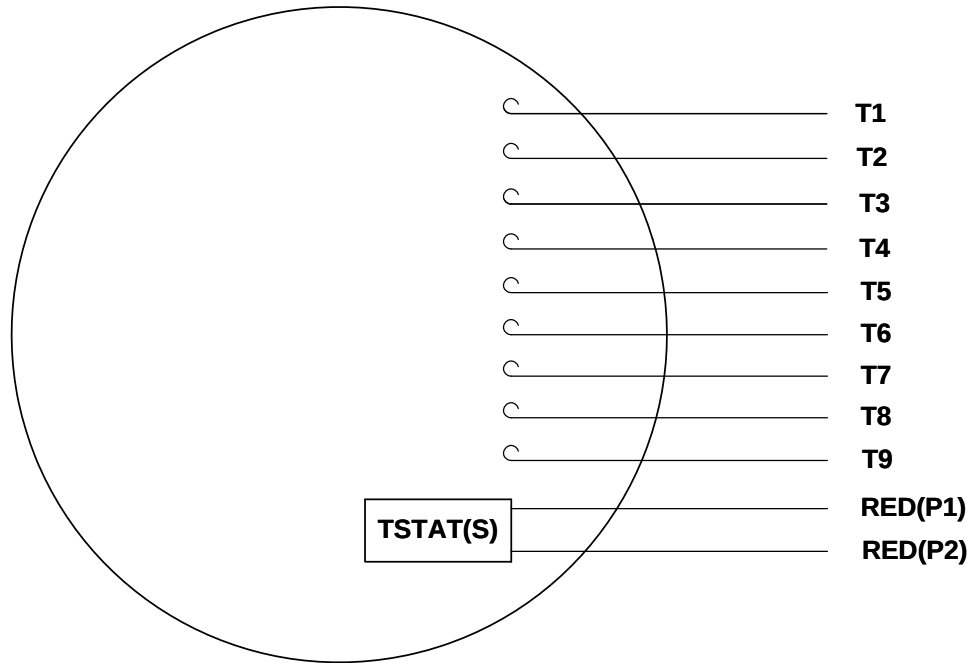
TOLERANCES UNLESS OTHERWISE SPECIFIED:	ANGLE
DEC. INCH mm	$\pm 0.5^\circ$
.X ± 0.1 [± 2.5]	
.XX ± 0.03 [± 0.76]	
.XXX ± 0.005 [± 0.127]	
.XXXX ± 0.0005 [± 0.0127]	
REMOVE BURRS & BREAK SHARP	
EDGES: .003/.015 [.076/.381] X 45°	
CORNER FILLETS: R.02 [.51]	
MACHINED SURFACES: 125 $\sqrt{\text{mm}}$ 3.2	
mm SHOWN IN [BRACKETS]	

DRAWN BY	A SUPPANAVAR
DATE	01/29/2018
APPROVED BY	PK
DATE	03/08/2018
REFERENCE	028776
THIRD ANGLE PROJECTION	

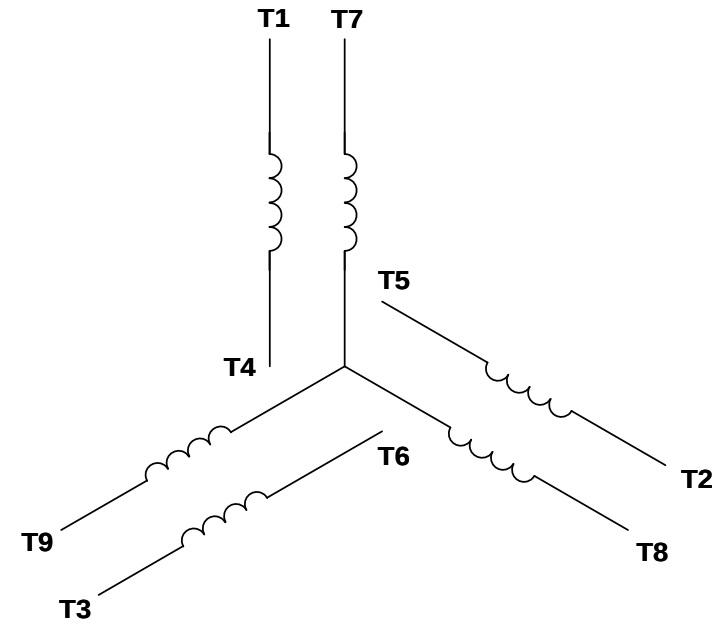
Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 56C FRAME TEFC-"C" FACE	
MATERIAL	PROCESS/FINISH
SIZE	DRAWING NUMBER
B	029091
GENERAL PURPOSE	
SHEET 1 OF 1	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

Uncontrolled Copy



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION G	REVISION BY MVG	DATE 04/05/2017
ECO ECO-0121253	APPROVED BY SM	DATE 04/05/2017

ECO DESCRIPTION
ADDED P1 & P2 FOR TSTAT

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 125/3.2 INCH/mm

mm SHOWN IN [BRACKETS]

DRAWN BY
DBT 12/16/97

DATE

APPROVED BY
KH 12/17/97

DATE

REFERENCE

THIRD ANGLE
PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3 PHASE WITH PROTECTOR

MATERIAL
DECAL - 004014 (TSTAT) - 080582

PROCESS/FINISH
STOCK

SIZE
A

DRAWING NUMBER
00501020

SHEET
1 OF 1



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.20
OUTLINE: 028776-750
WINDING: T632174

CAT #: 116751.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
2	1.5	3600	3511	56C	TEFC	TFR	L	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60/50	230/460#190/380	4.9/2.45&4.4/2.2	ACROSS THE LINE	CONT	F	1.15	40	3300				
F.L.EFF		87.1	3/4 LD EFF		86.7	1/2 LD EFF		85.5	GTD EFF				
F.L.PF		88.4	3/4 LD PF		82.1	1/2 LD PF		72.2	0.0				
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
3.0	LB-FT	26.0		10.8	LB-FT	360%		13.0	LB-FT	433%	46		
PRESSURE @ 3		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
0	dba	9	dba	0.08	LB-FT²	0.1	LB-FT²	10	SEC.	0	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	NONE	NO	NONE	IN - LEESON WATTS
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE	CODE							
BALL	BALL	POLYREX EM	STANDARD 56	NONE				
6203	6203							1144 STRESSPROOF (C-223)
								ROLLED STEEL
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA		
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT		
0	0	0	0	0	0.150	ODE		

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

DATE: 2/21/2018	UL: Y-(LEESON UL REC)
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Data Sheet

Date: 1/31/2018

116751.00



Data @ 460 V

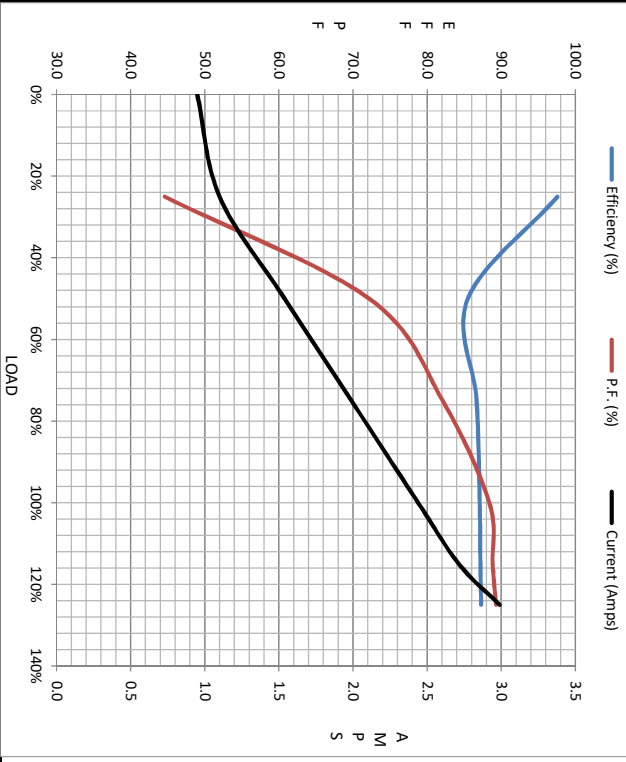
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.95	1.10	1.54	1.99	2.44	2.72	2.99	26.0
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.4	3.8	10.8
RPM	3600	3581	3555	3533	3511	3501	3487	0
Efficiency (%)		97.6	85.5	86.7	87.1	87.2	87.3	
P.F. (%)	16.8	44.6	72.2	82.1	88.4	88.9	89.3	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	200	2300	3511	3600
Current (Amps)	26.0	23.9	15.6	2.44	0.95
Torque (ft-lb)	10.8	10.5	13.0	3.0	0.00

Information Block	
HP	2.0
Sync. RPM	3600



Speed -Torque Curve

