

PRODUCT INFORMATION PACKET



Model No: C6T34FC98C

Catalog No: 116750.00

..1 1/2HP..3490RPM.56.TEFC.230/460V.3PH.60HZ.CONT.40C.1.25SF.C
FACE.C6T34FC98C.....WATTSaver.AUTOMATIC.....

Totally Enclosed Fan Cooled (TEFC)



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Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.0/2.0 A	Speed	3490 rpm
Service Factor	1.25	Phase	3
Efficiency	84 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	M	Frame	56C
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	Automatic
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	43		

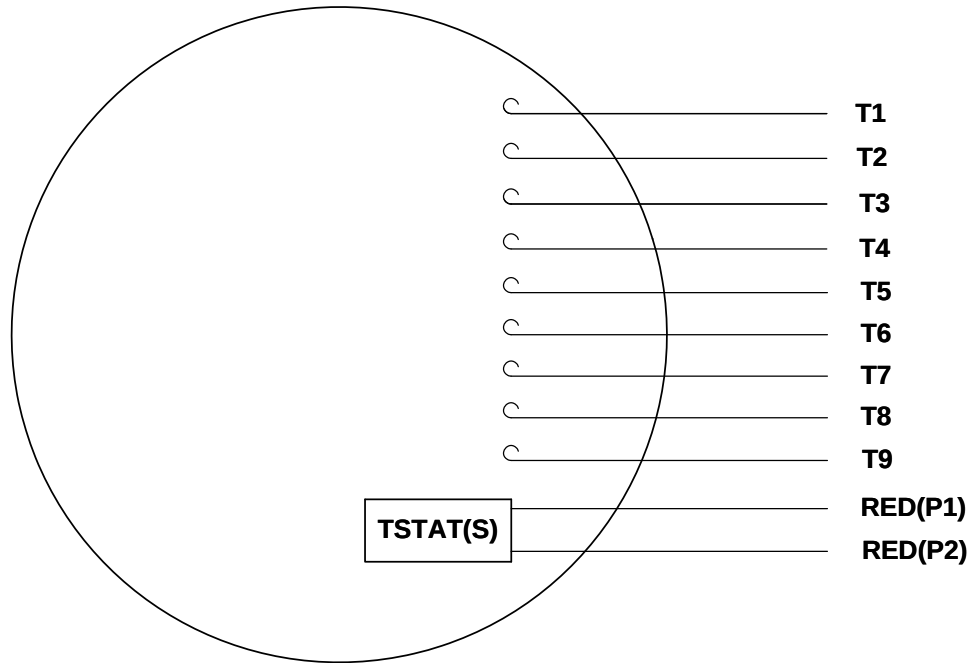
Technical Specifications

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	11.98 in	Frame Length	6.50 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	029091-650	Connection Diagram	005010.20

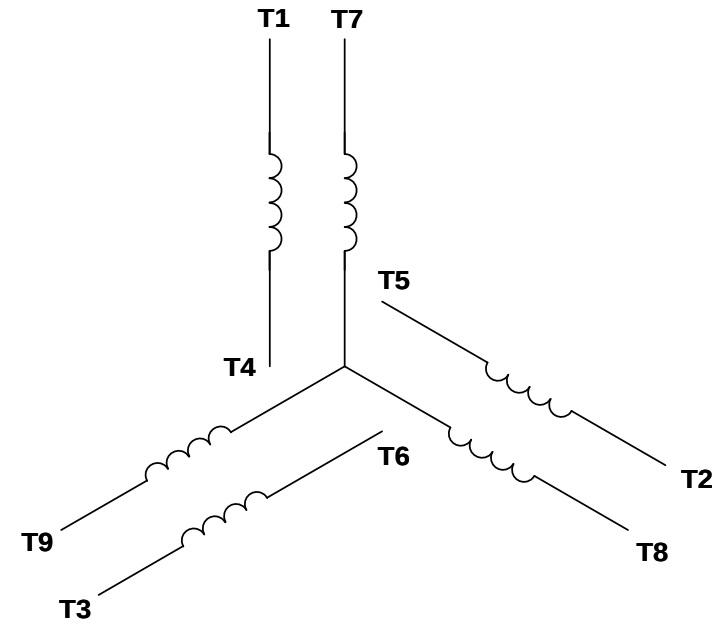
		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE 56C FRAME TEFC-"C" FACE	
MATERIAL		PROCESS/FINISH GENERAL PURPOSE	
SIZE B	DRAWING NUMBER 029091	SHEET 1 OF 1	

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		
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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: 028776-650
WINDING: T632173

FR 3

CAT #: 116750.00

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN			
1.5	1.1	3600	3500	56C	TEFC	TFR	M	B			
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.		
3	60/50	230/460#190/380	4.05/2.05&3.5/1.75	ACROSS THE LINE	CONT	F	1.15	40	3300		
F.L. EFF		84.0	3/4 LD EFF	81.9	1/2 LD EFF	78.9	GTD EFF	ELECT. TYPE			
F.L. PF		83.6	3/4 LD PF	76.5	1/2 LD PF	64.7	0.0	SQ CAGE IND RUN			
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)			
2.25	LB-FT	20.1		8.9		LB-FT	396%	10.7	LB-FT	476%	50
PRESSURE @		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME			
0 DBA		9 DBA		0.06		LB-FT²		0.1		LB-FT²	10 SEC.
										STARTS/HOUR	
										0	
										MOTOR WGT	
										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	N - LEESON WATTS
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE ODE								
BALL BALL	POLYREX EM	STANDARD 56	NONE	NONE				
6203 6203								1144 STRESSPROOF (C-223) ROLLED STEEL
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
TSTATS (N/C)	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		
0	0	0	0	0	0.150	ODE		

* N O T E S *				INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE			
				ENCODER: NONE			
				BRAKE: NONE			
				FT-LB: NONE NA NONE			
				VOLTAGE: NONE			
				UL: Y(LEESON UL REC)			

DATE: 1/31/2018		HZ:	
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1/31/2018

116750.00

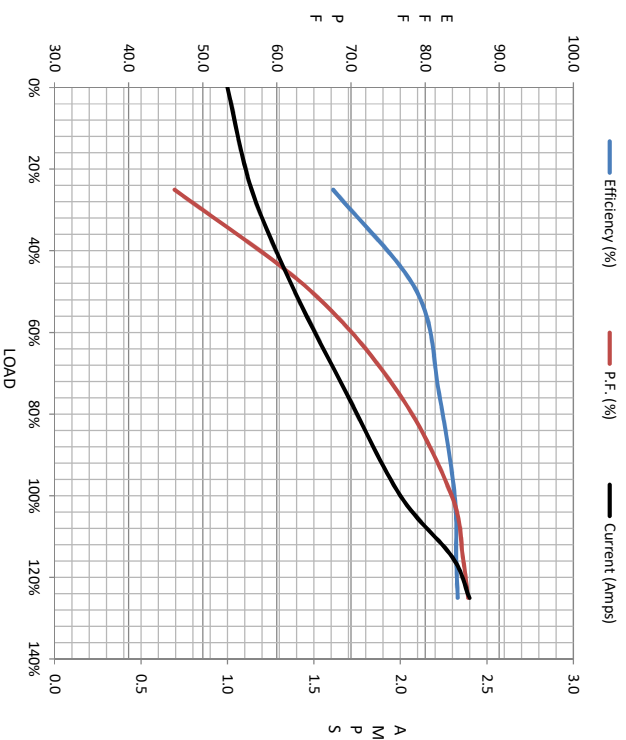


Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (amps)	1.00	1.14	1.39	1.69	2.00	2.30	2.40	20.1	
Torque (ft-lb)	0.00	0.56	1.12	1.68	2.25	2.65	2.80	8.9	
RPM	3600	3570	3549	3535	3500	3488	3480	0	
Efficiency (%)		67.6	78.9	81.9	84.0	84.2	84.4		
P.F. (%)	12.6	46.2	64.7	76.5	83.6	85.1	85.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	220	2200	3500	3600		
Current (Amps)	20.1	18.5	16.0	2.00	1.00	HP	1.5
Torque (ft-lb)	8.9	8.6	10.7	2.25	0.00	Sync. RPM	3600



Information Block				
HP	1.5			
Sync. RPM	3600			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#1 90/380		V	
Frequency	60		Hz	
Design	A			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	50		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.06		Lb-Ft²	
Ref Wdg	T6S2173 FR			
Sound Pressure @ 1M	0		dBA	
VFD Rating	NONE			
Outline Dwg	028776-650			
Conn. Diag	005010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (CHMS./PHASE)				
R1	R2	X1	X2	Xm
0.0000		0.0000	0.0000	0.0000

