

PRODUCT INFORMATION PACKET



Model No: C6T17FC251A

Catalog No: 119542.00

119542.00..1HP..1760RPM.56C.TEFC.575VAC.3PH.60HZ.CONT.40C.1.15SF.C FACE.C6T17FC251.....T-
STATS.....

575 Volts



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Nameplate Specifications

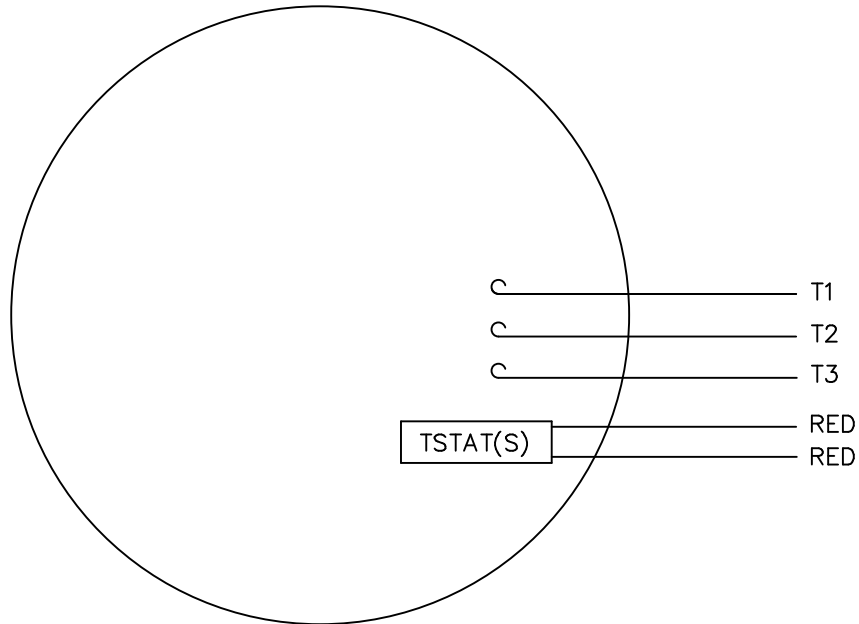
Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	575 V
Current	1.3 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	N	Frame	56C
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	43		

Technical Specifications

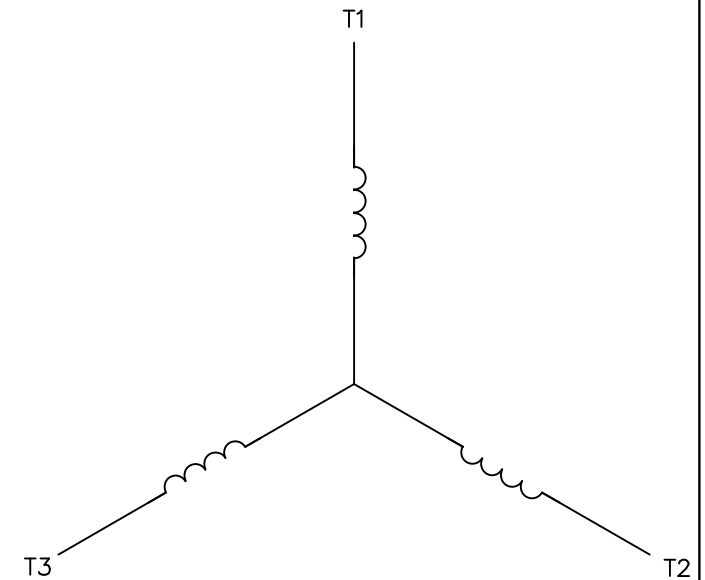
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	12.48 in	Frame Length	7.00 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	029091-700	Connection Diagram	005102.13

005102-13

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS

LINE	L1	L2	L3	
MOTOR	T1	T2	T3	

TOLERANCES UNLESS
OTHERWISE SPECIFIED

DECIMALS

.00 ± .01

.000 ± .005

.0000 ± .0005

FRACTIONS ± 1/64

ANGLES ± 1/2°

INCH/MM

LEESON ELECTRIC CORPORATION

DRAWN MN 9/28/98

CH'K'D.

APPR.

SCALE 1=1

REF. 005102-13

FMF

TITLE

EXT. WIRING DIAGRAM
TYPE "T" W/O PROTECTOR

MAT'L.

DECAL - 004169
(TSTAT) - 080582

FINISH

SIZE

A

DRAWING NO.

005102-13

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005102.13
OUTLINE: 028776-700
WINDING: T634342

FR 4

CAT #: 119542.00

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
1	0.75	1800	1760	56C	TEFC	TFR	N	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60	575	1.25	ACROSS THE LINE	CONT	F	1.15	40	3300				
F.L. EFF		85.5	3/4 LD EFF	85.4	1/2 LD EFF	79.6	GTD EFF	ELECT. TYPE					
F.L. PF		68.5	3/4 LD PF	61.5	1/2 LD PF	51.5	0.0	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	11.2			12.0	LB-FT	400%	15.8	LB-FT	527%	38		
PRESSURE @ 3		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
65	dbA	74	dbA	0.12	LB-FT²	0	LB-FT²	10	SEC.	0	0	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	NONE	NO	NONE	IN - LEESON WATTS
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE	ODE							
BALL	BALL							
6203	6203	POLYREX EM	STANDARD 56	NONE	NONE	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 ODE		
0	0	0	0	0	0.150			

NOTES	INVERTER TORQUE: NONE									
	INV. HP SPEED RANGE: NONE									
	ENCODER: NONE									
	BRAKE: NONE									
	NONE PPR									

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

Date: 1/29/2018



Data@ 575 V

Motor Load Data								
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (amps)	0.80	0.82	0.93	1.08	1.28	1.36	1.44	11.2
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	12.0
RPM	1800	1779	1789	1769	1760	1,750	1745	0
Efficiency (%)		72.5	79.6	85.4	85.5	85.0	84.7	
P.F. (%)	8.0	32.5	51.5	61.5	68.5	74.0	77.0	41.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1170	1760	1800
Current (amps)	11.2	10.4	7.9	1.28	0.80
Torque (ft-lb)	12.0	11.9	16.8	3.0	0.00
					HP
					Sync. RPM
					1800
Information Block					

Information Block

Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	38 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.12 Lb-Ft²			
Ref Wdg	TB3A342 FFR			
Sound Pressure @ 1M	65 dBA			
VFD Rating	NONE			
Outline Dwg	028776-700			
Corn. Diag	005102.13			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Efficiency (%)	P.F. (%)	Current (Amps)						
100.0								
90.0								
80.0								
70.0								
60.0								
50.0								
40.0								
30.0								
0%	20%	40%	60%	80%	100%	120%	140%	
LOAD								
0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6
A								
M								
P								
S								
F								
E								
F								
P								
F								

Speed -Torque Curve

