

PRODUCT INFORMATION PACKET



Model No: CZ6T17WK54A
Catalog No: 119495.00
..2HP..1800RPM.56HC.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID C
FACE.....WASHGUARD.....
3 Phase



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Nameplate Specifications

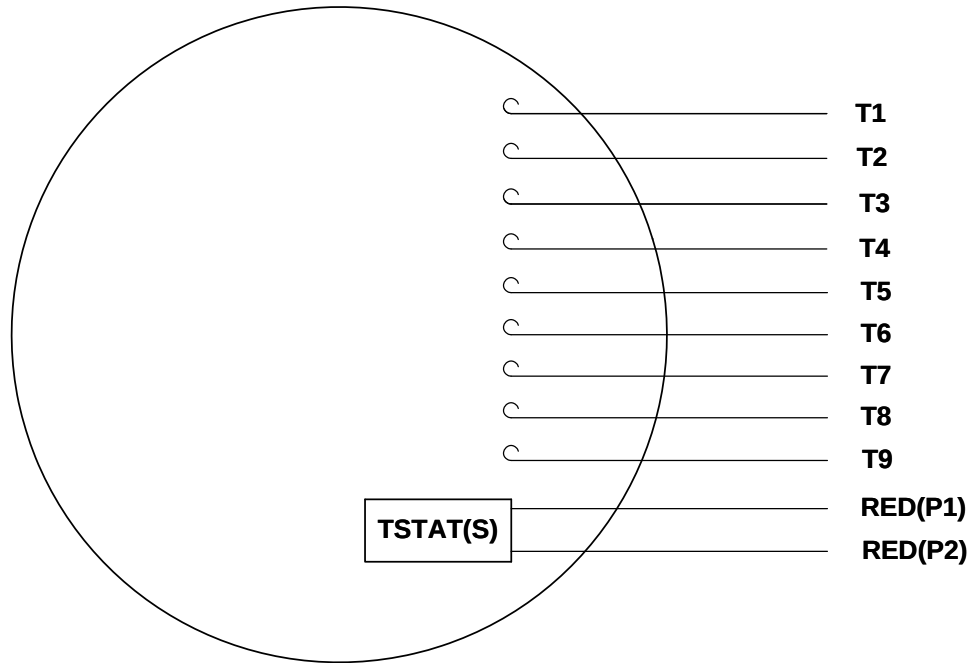
Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	5.8/2.9 A	Speed	1745 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	L	Frame	56HC
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6205	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

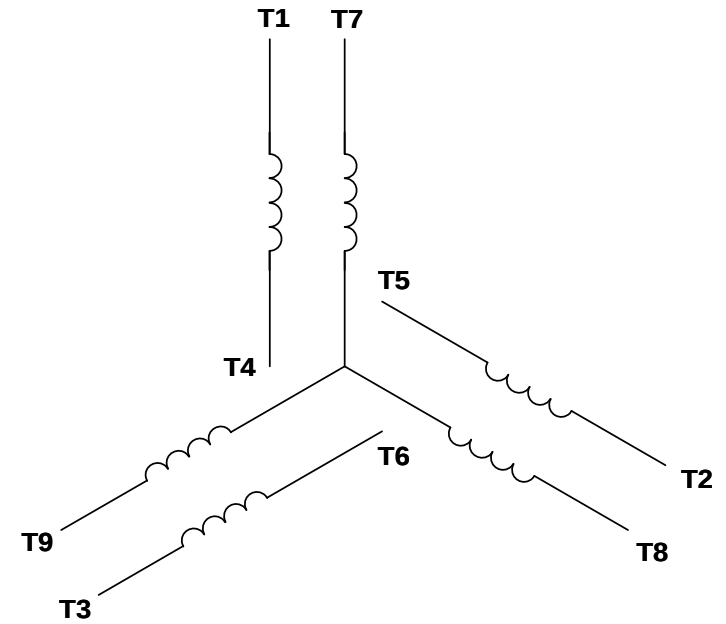
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Stainless Steel	Shaft Type	T
Overall Length	13.19 in	Frame Length	8.25 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	029074-825	Connection Diagram	005010.20

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: 028926-825
WINDING: T634340

CAT #: 119495.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
2	1.5	1800	1751	56HC	TEFC	TFR	L	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60/50	230/460#190/380	5.8/2.986/3	LINE OR INVERTER	CONT	F	1.15	40	3300				
F.L.EFF		86.5	3/4 LD EFF	85.6	1/2 LD EFF	83.4	GTD EFF		ELECT. TYPE				
F.L.PF		75.6	3/4 LD PF	64.0	1/2 LD PF	51.9	84.0		SQ CAGE INVERTED				
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)					
6.0	LB-FT	26.5		18.8 LB-FT		313%		24.6 LB-FT	410%	53			
PRESSURE @ 3		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR	MOTOR WGT		
65	DBA	74	DBA	0.16	LB-FT²	0	LB-FT²	10	SEC.	3	0	LB.	
DE BRACKET TYPE		ODE BRACKET TYPE		MOUNT TYPE		MOTOR ORIENTATION		SEVERE DUTY		HAZARDOUS LOCATION		DRIIP COVER	
C-FACE		STANDARD		RIGID		HORIZONTAL		NO		NONE		NO PAINT	
BEARINGS		GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE		SHAFT		MATERIAL	
6205		6205		POLYREX EM		T		NONE		NONE		303 STAINLESS (C-501)	
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		0.080		ODE	

*		INVERTER TORQUE: CONSTANT 3:1 INV. HP SPEED RANGE: NONE	
N			
O			
T			
E		ENCODER: NONE	
S			
*			
		NONE	NONE
		NONE	PPR

Data Sheet

Date: 1/17/2018

119495.00



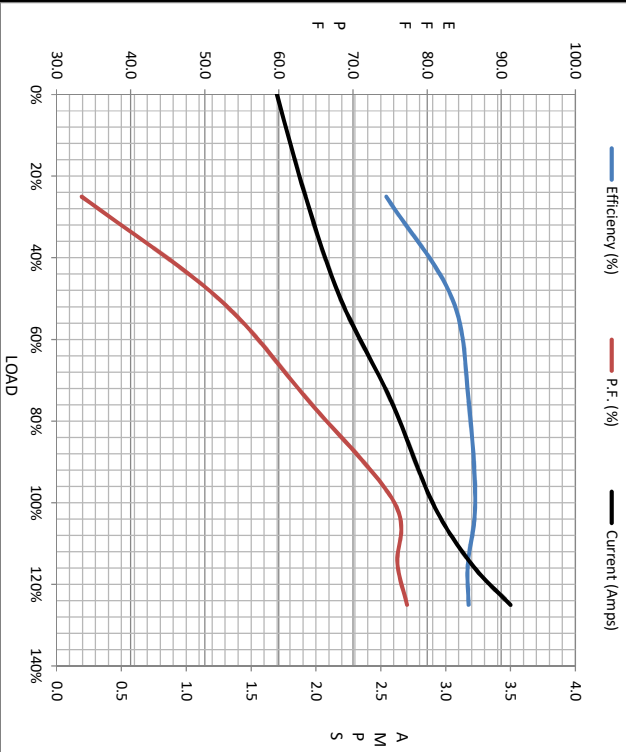
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.70	1.92	2.19	2.58	2.90	3.2	3.5	26.5
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.5	7.5	18.8
RPM	1800	1787	1774	1763	1751	1,730	1732	0
Efficiency (%)		74.5	83.4	85.6	86.5	85.5	85.6	
P.F. (%)	7.1	33.4	51.9	64.0	75.6	76.0	77.3	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	775	1085	1751	1800		
Current (Amps)	26.5	24.4	14.2	2.90	1.70	HP	2.0
Torque (ft-lb)	18.8	15.0	24.6	6.0	0.00	Sync. RPM	1800



Enclosure		TEFC							
Construction		TFR							
Voltage		230/460# 190/380 V							
Frequency		60 Hz							
Design		A							
LR Code letter		L							
Service Factor		1.15							
Temp Rise @ FL		53 °C							
Duty		CONT							
Ambient		40 °C							
Elevation		1,000 feet							
Rotor/Shaft wk²		0.16 Lb-Ft²							
Ref Wdg		T634340 FR							
Sound Pressure @ 1M		65 dBA							
VFD Rating		CONSTANT 3:1							
Outline Dwg		028926-825							
Conn. Diag		005010.20							
Additional Specifications:									
0									
0									
EQUIV CKT (OHMS / PHASE)									
R1		R2		X1		X2		Xm	
0.0000		0.0000		0.0000		0.0000		0.0000	

Speed -Torque Curve

