

PRODUCT INFORMATION PACKET



Model No: CZ145T17WK53A

Catalog No: 122031.00

..2HP..1745RPM.145TC.TEFC.230/460V.3PH.60HZ.CONT.40C.1.25SF.RIGID-C
FACE.CZ145T17WK53.....STAINLESS WITH SGR.NONE.....

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	1.25	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	L	Frame	145TC
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 Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	13.25 in	Frame Length	8.25 in
Shaft Diameter	0.875 in	Shaft Extension	2.25 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	028929-825	Connection Diagram	005010.01

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005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

				TOLERANCES UNLESS SPECIFIED		REGAL ™ Regal Beloit America, Inc.		DRAWN RDW 04/12/02		
				DEC.	INCHES			CHK		
				.X	±.1			APPD		
				.XX	±.01			SCALE 1=1		
				.XXX	±.005	TITLE		REF FIG.2-51		
A	UPDATED TO REGAL LOGO		SAJ 06/26/15	AJY .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	04/12/02	CAD FILE		SIZE	DRAWING NO.	REV.
				DIST BRF-NLV		00501001		A	005010-01	A



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01
OUTLINE: 028929-825
WINDING: T634340

CAT #: 122031.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
2	1.5	1800	1751	145 C	TEFC	TFR	L	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	6/386.8/3.4	ACROSS THE LINE	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 IND RUN
	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.		

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	N - LEESON WATTS
BEARINGS DE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
BALL BALL 6205	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL		

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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	0.080	

* NOT TESTED		INVERTER TORQUE: NONE	
		INV. HP SPEED RANGE: NONE	
		ENCODER: NONE	
		NONE	
		NONE	
		BRAKE: NONE	
		NONE	
		FT-LB: NA	
		NONE	
		NONE	
		NONE	
		PPR	

DATE:	2/15/2018	UL: Y-(LEESON UL REC)	HZ:
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		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	
HPM		1800	1787	1774	1763	1751	1730	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					Information Block																				
	LR	Pull-Up	BD	Rated	Idle	HP	Sync. RPM	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Rotor/Shaft wk ²	Ref Wdg	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Conn. Diag	Additional Specifications:	
Speed (RPM)	0	775	1085	1751	1800	2.0	1800	140	TEFC	TFR	230/460#190/380	60	A	L	1.15	53	CONT	40	1,000	0.16	T634340 FR	65	NONE	028929-825	005010.01		
Current (Amps)	26.5	24.4	14.2	2.90	1.70																						
Torque (ft-lb)	18.8	15.0	24.6	6.0	0.00																						

