

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTFCA6026

Catalog No: GT1034

Globetrotter® General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 324T Frame, TEFC



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RegalRexnord

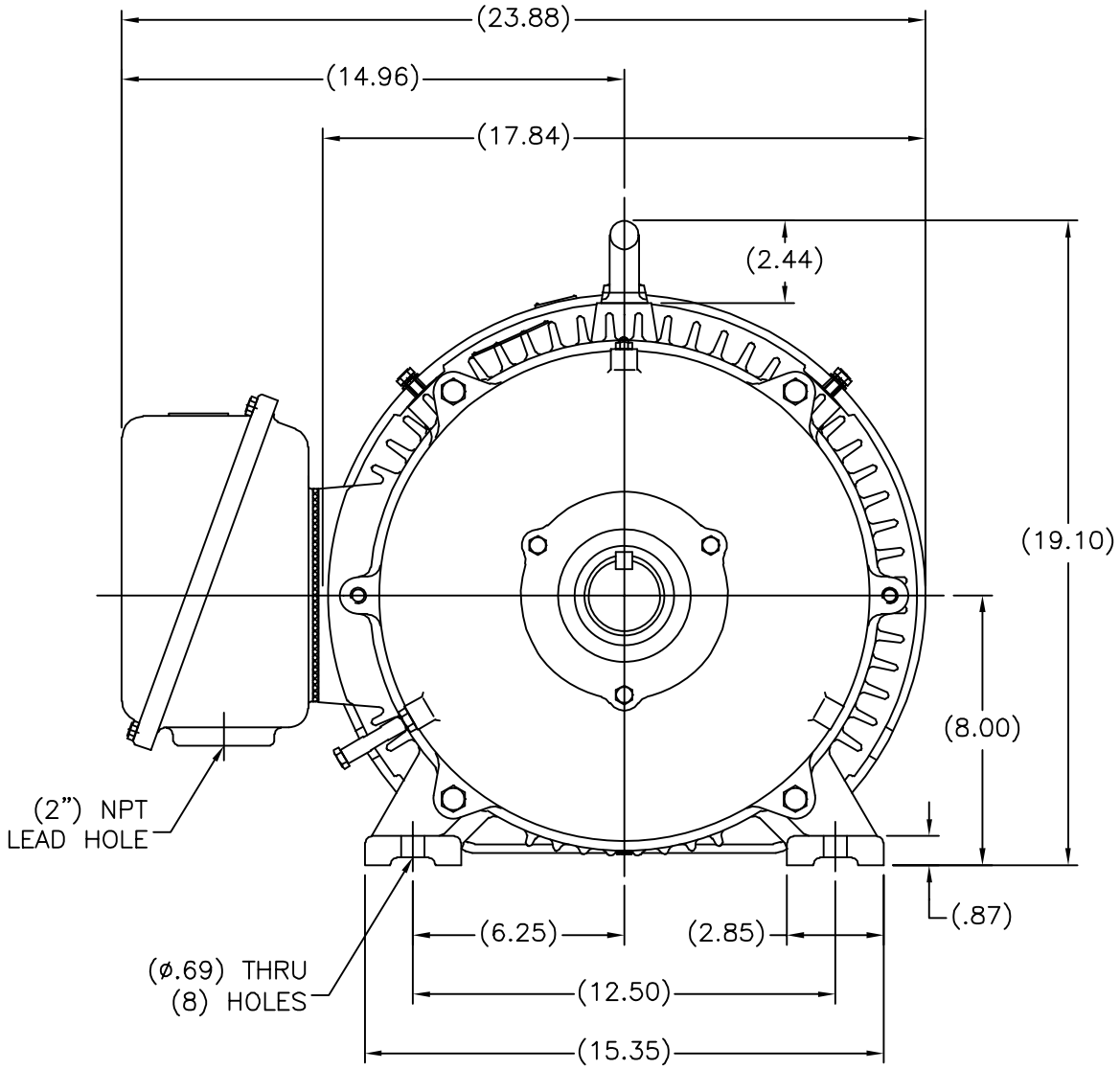
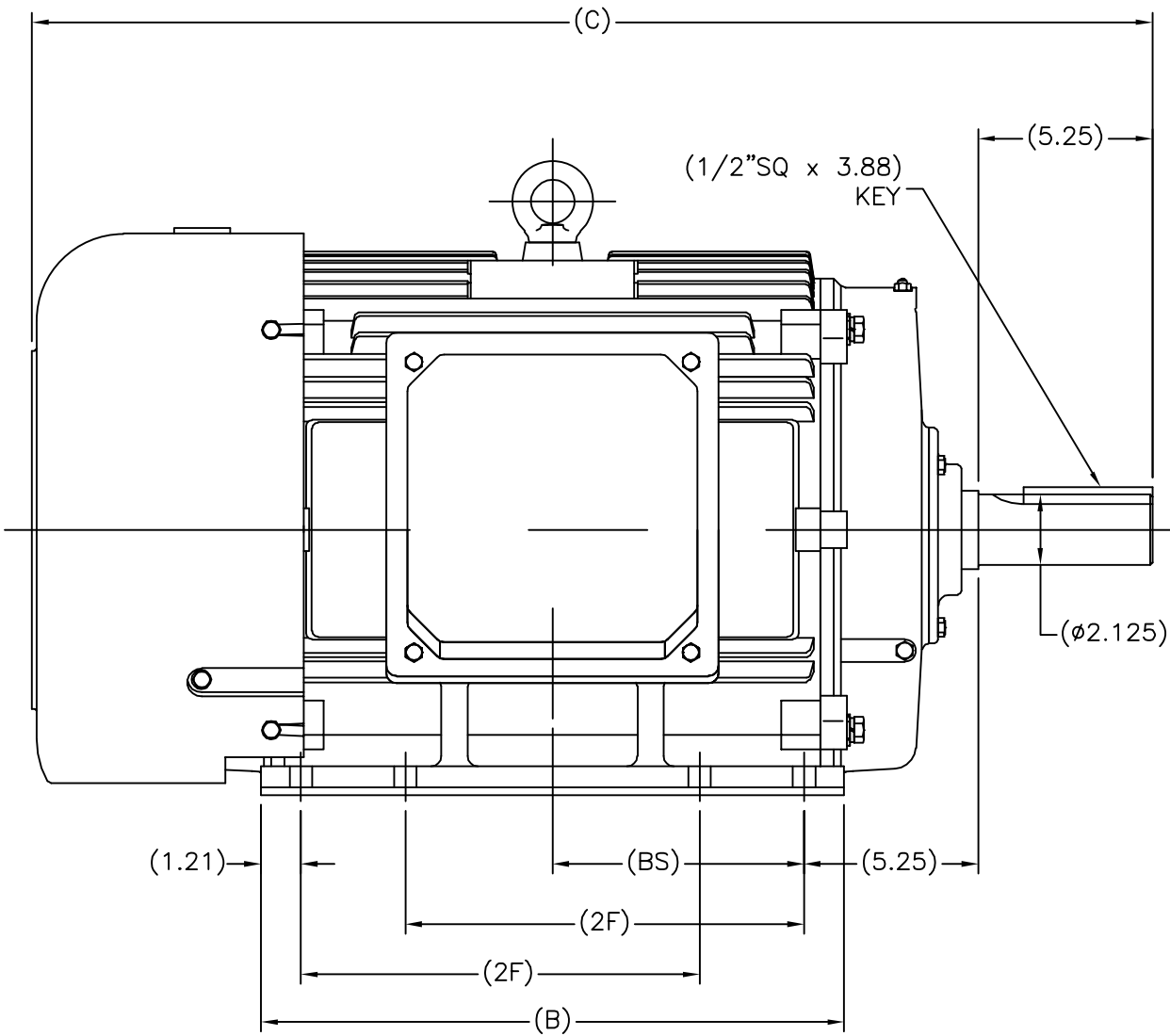
Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	324T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	94/47 & 87/43.5 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.1368 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	32.68 in
Shaft Diameter	2.125 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620247-324T	Connection Drawing	A-EE7308AA

SS620247



(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

324T	32.68	16.37	10.50	6.98
326T	33.86	17.56	12.00	7.57
FRAME	C	B	2F	BS

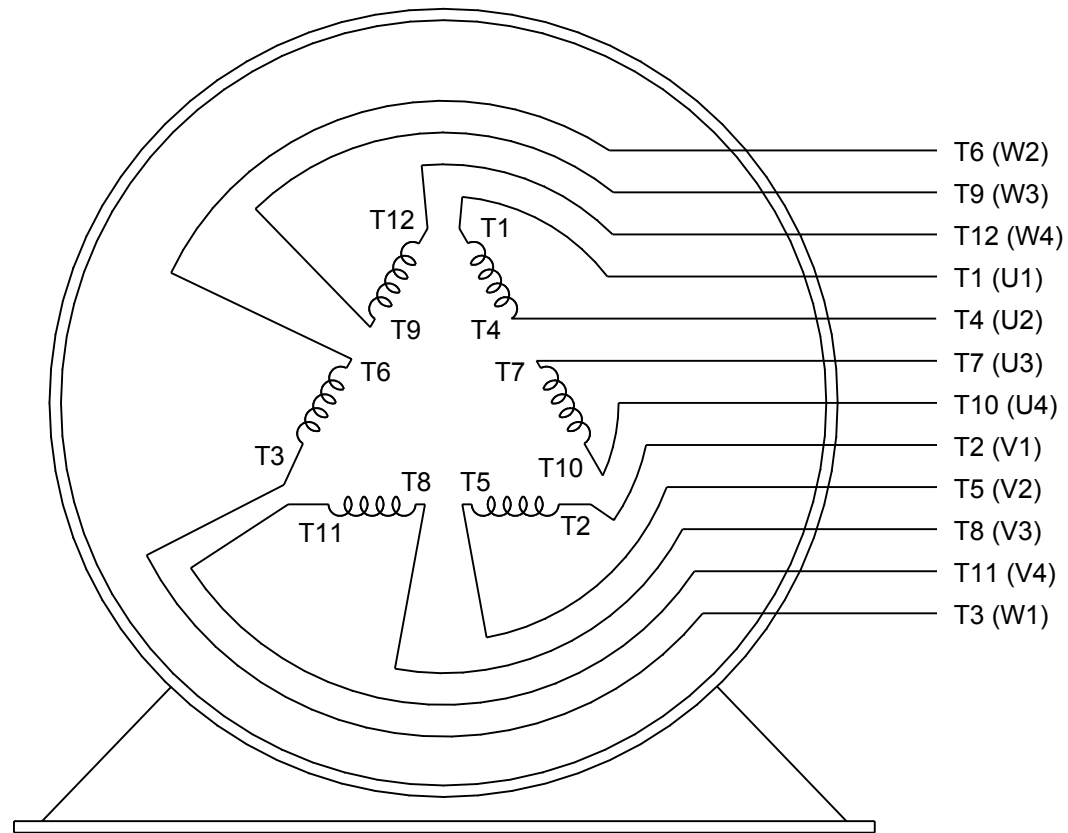
		TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION		DRAWN MSG 01-12-2010	
		DEC.	INCHES			CHK	MJS 01-13-2010
		.X	±.1			APPD	SB 01-13-2010
		.XX	±.03		TITLE OUTLINE		SCALE 7=32
		.XXX	±.005		320T FR. - TEFC		REF
1	ADDED 'BS' DIM. PER. ECO-0048910	RFH 04/07/2014	EH .XXXX ±.0005		MAT'L.	FMF	HUADA
NO.	REVISION	BY & DATE	CHK ANG ±7'30"		FINISH	PREV	
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				DIST			



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ
DATE 01-12-1994
APPROVED BY GK
DATE 01-14-1994
REFERENCE
THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 324TTFCA6026 BB
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS620247

WINDING#: CHT32440001 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	1800	1780&1480	324T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	94/47&87/43.5	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&94.1	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83&82.5	3/4 LOAD PF: 80	1/2 LOAD PF: 72.5	93.6	SQ CAGE INV RATED	33 / 16.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
118 LB-FT	550 / 275	195 LB-FT 165	318 LB-FT 270	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	11.2 LB-FT^2	- LB-FT^2	20 SEC.	2	695 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 04:39:10 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



324TTFCA6026

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.5	20.0	27.5	37.0	47.0	55.5	60.0	275	
Torque (ft-lb)	0.00	29.3	58.5	88.3	118	136	149	195	
RPM	1800	1795	1790	1785	1780	1,775	1770	0	
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	5.0	51.5	72.5	80.0	83.0	83.5	83.5	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																					
Speed (RPM)	0	750	1705	1780	1800	Information Block																																				
Current (Amps)	275	250	160	47.0	16.5	HP	40.0																																			
Torque (ft-lb)	195	200	318	118	0.00	Sync. RPM	1800																																			
Efficiency (%) P.F. (%) Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td>91.0</td><td>5.0</td><td>16.5</td></tr><tr><td>20%</td><td>92.0</td><td>20.0</td><td>18.0</td></tr><tr><td>40%</td><td>93.0</td><td>45.0</td><td>22.0</td></tr><tr><td>60%</td><td>94.0</td><td>65.0</td><td>28.0</td></tr><tr><td>80%</td><td>94.1</td><td>78.0</td><td>35.0</td></tr><tr><td>100%</td><td>94.0</td><td>83.5</td><td>47.0</td></tr><tr><td>120%</td><td>93.0</td><td>83.5</td><td>60.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%	91.0	5.0	16.5	20%	92.0	20.0	18.0	40%	93.0	45.0	22.0	60%	94.0	65.0	28.0	80%	94.1	78.0	35.0	100%	94.0	83.5	47.0	120%	93.0	83.5	60.0	Frame	324			
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						Construction	TFC																																			
						Voltage	230/460#190/381V																																			
						Frequency	60 Hz																																			
						Design	B																																			
						LR Code letter	G																																			
						Service Factor	1.15																																			
						Temp Rise @ FL	65 °C																																			
Duty	CONT																																									
Ambient	40 °C																																									
Elevation	1,000 feet																																									
Rotor/Shaft wk²	11.2 Lb-Ft²																																									
Ref Wdg	CHT32440001 NONE																																									
Sound Pressure @ 1M	60 dBA																																									
VFD Rating	VARIABLE 10:1																																									
Outline Dwg	B-SS620247																																									
Conn. Diag	A-EE7308AA																																									
Additional Specifications:																																										
0																																										
0																																										
EQUIV CKT (OHMS / PHASE)																																										
R1	R2	X1	X2	Xm																																						
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000																																					

Speed -Torque Curve

