

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 254TTFCA6076

Catalog No: GT1017

Globetrotter® General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1200 & 1000 RPM, 254T Frame, TEFC



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**RegalRexnord**

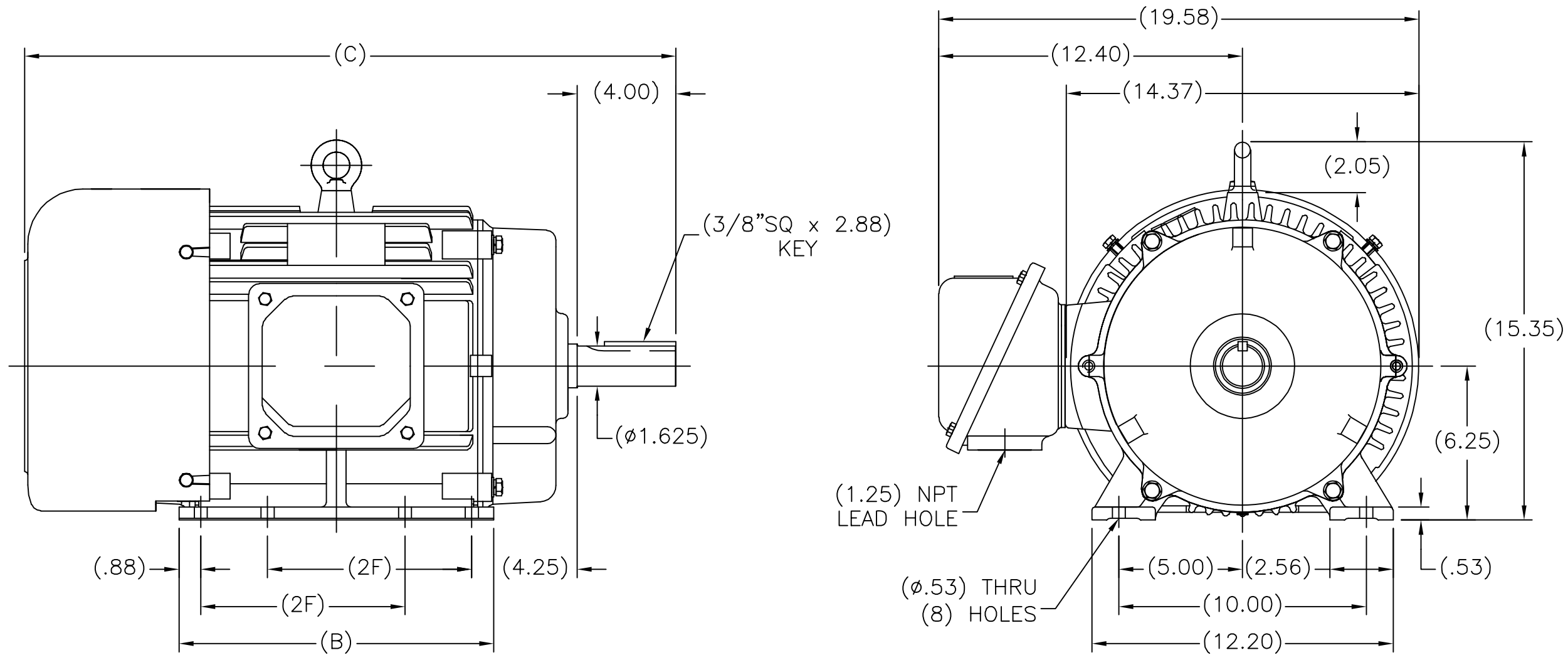
### Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1182 & 985 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20.4/10.2 & 17.4/8.7 A	Power Factor	74
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	1.32 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	26.60 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	EE7308K	Outline Drawing	SS620244-254T


SS620244

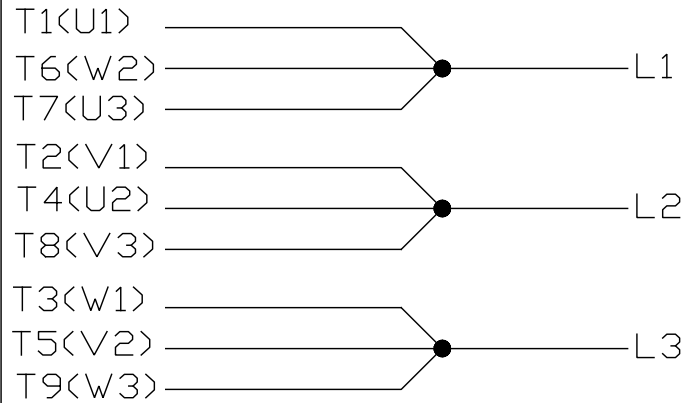
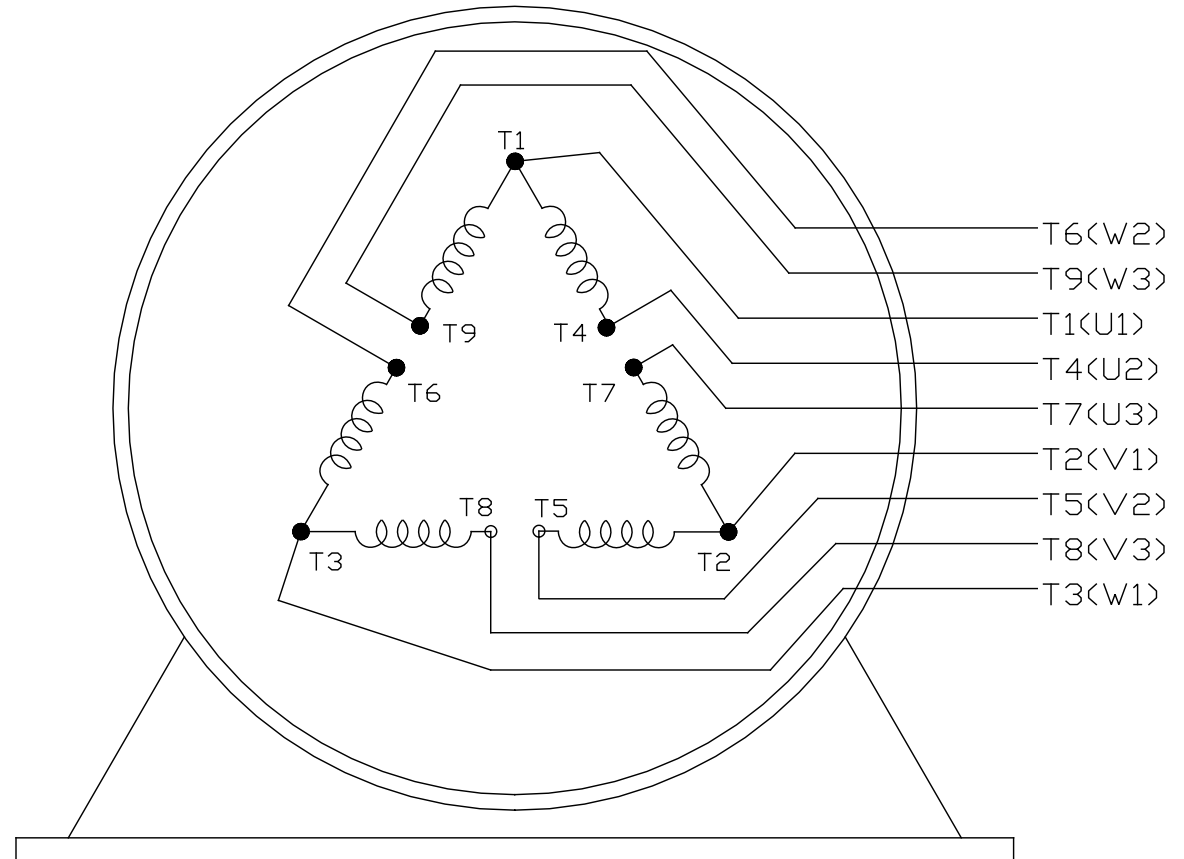
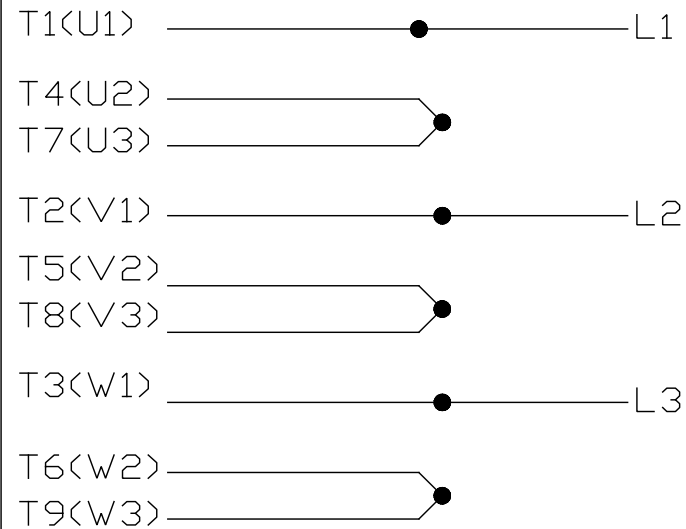


(MAY NOT BE DRAWN TO SCALE)


(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

254T	26.60	12.80	8.25
256T	27.80	13.98	10.00
FRAME	C	B	2F

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN MSG 01-12-2010						
				DEC.	INCHES		CHK	MJS	01-13-2010				
				.X	±.1		APPD	SB	01-13-2010				
				.XX	±.03	TITLE OUTLINE 254T FR. — TEFC		SCALE	1=4				
				.XXX	±.005			REF					
D	CHANGED BORDER LOGO TO "REGAL"	ECO-0075536	WGJ 04-09-2015	EH	.XXXX	±.0005	MAT'L.	FMF	HUADA				
NO.	REVISION		BY & DATE	CHK	ANG		±7'30"	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	01-14-2010		CAD FILE	SS620244	SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST					B	SS620244			

LOW VOLTAGEHIGH VOLTAGE

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 <b>REGAL - BELOIT CORPORATION</b>	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"		CHK	ML	06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	± .1				
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	± .02	TITLE			SCALE
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	± .005	DELTA CON. - 3Ø - 9 LEADS			REF
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	± .0005	MAT'L.			FMF
						FINISH			PREV
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						DIST			A
								DRAWING NO.	PAGE OF
								EE7308K	REV.
									E

## CERTIFICATION DATA SHEET

Model#: 254TTFCA6076 BB

WINDING#: CHT25460001 NONE 1

CONN. DIAGRAM: EE7308K

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620244

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1200	1182&985	254T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	20.4/10.2&17. 4/8.7	ACROSS THE LINE	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 91&90.2	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 74&71	3/4 LOAD PF: 67	1/2 LOAD PF: 55	90.2	SQ CAGE IND RUN	11.2 / 5.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
33.4 LB-FT	110 / 55	51 LB-FT 153	100 LB-FT 305	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	2.5 LB-FT^2	150 LB-FT^2	20 SEC.	2	325 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						
6309	6209	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

INVERTER TORQUE: NONE
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

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DATE: 06/21/2017 11:01:23 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.

## Data Sheet

Date: 6/19/2017

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



254TTFCA6076

Submittal

Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.6	6.0	7.2	8.8	10.5	11.8	12.8	55.0	
Torque (ft-lb)	0.00	8.3	16.5	25.0	33.4	38.5	42.0	51.0	
RPM	1200	1195	1192	1185	1182	1,180	1178	0	
Efficiency (%)		84.0	89.5	91.0	91.0	91.0	90.2		
P.F. (%)	5.5	35.0	55.0	67.0	74.0	75.0	76.0	34.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	600	1100	1182	1200	HP	7.5			
Current (Amps)	55.0	49.0	34.0	10.5	5.6	Sync. RPM	1200			
Torque (ft-lb)	51.0	46.0	100	33.4	0.00	Frame	254			
<div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div> <div>EFFICIENCY (%)</div> <div>P.F. (%)</div> <div>CURRENT (AMPS)</div> <div>LOAD</div>						Enclosure	TEFC			
						Construction	TFC			
						Voltage	30/460#190/381V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	40 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk <sup>2</sup>	2.50 Lb-Ft <sup>2</sup>			
						Ref Wdg	CHT25460001 NONE			
						Sound Pressure @ 1M	56 dBA			
						VFD Rating	NONE			
						Outline Dwg	SS620244			
						Conn. Diag	EE7308K			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1	R2	X1	X2	Xm						
0.7940	0.4540	2.1550	3.5150	46.3050						

## Speed -Torque Curve

