

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTFCA6076

Catalog No: GT1026

Globetrotter® General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1200 & 1000 RPM, 286T Frame, TEFC



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RegalRexnord

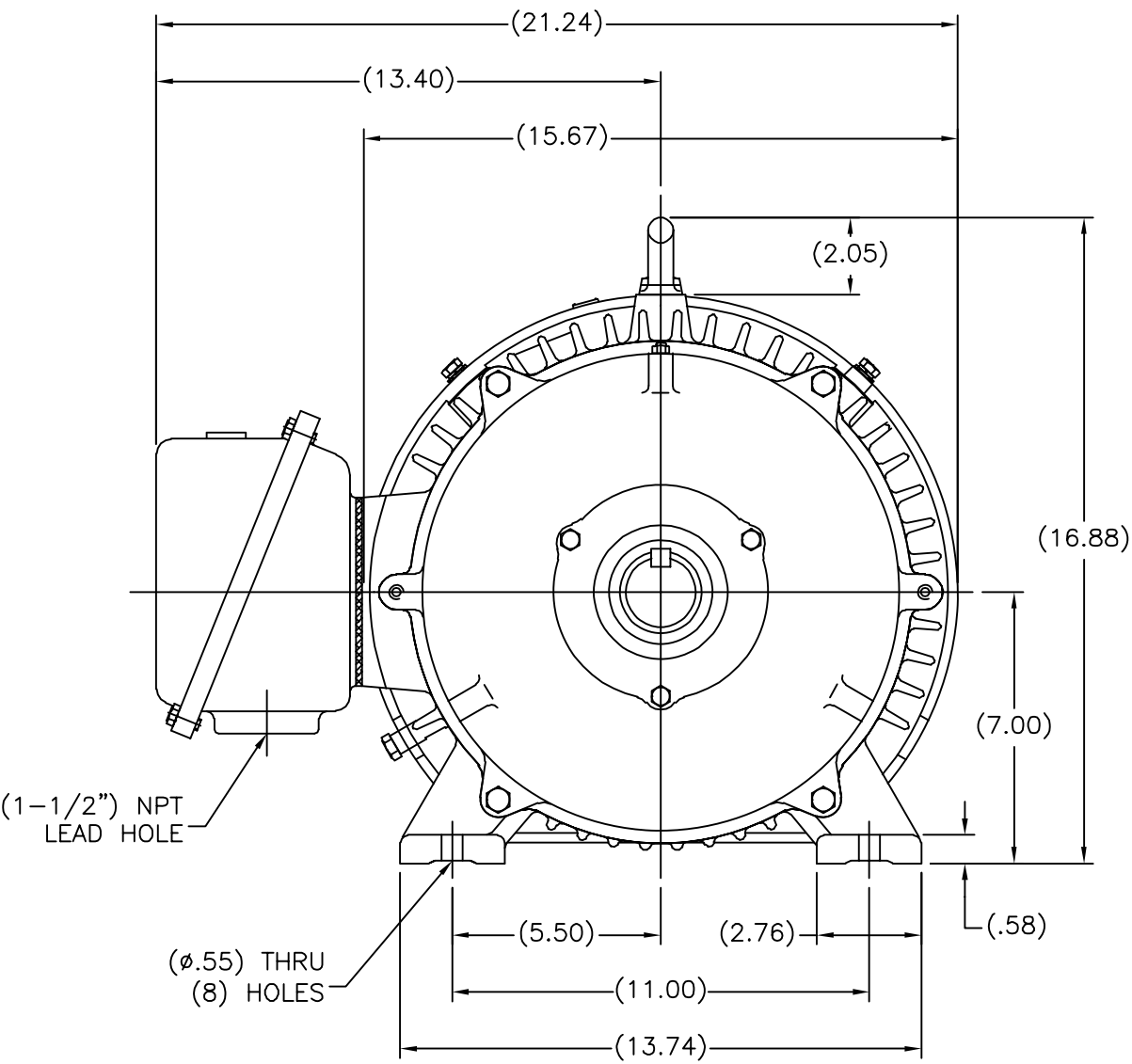
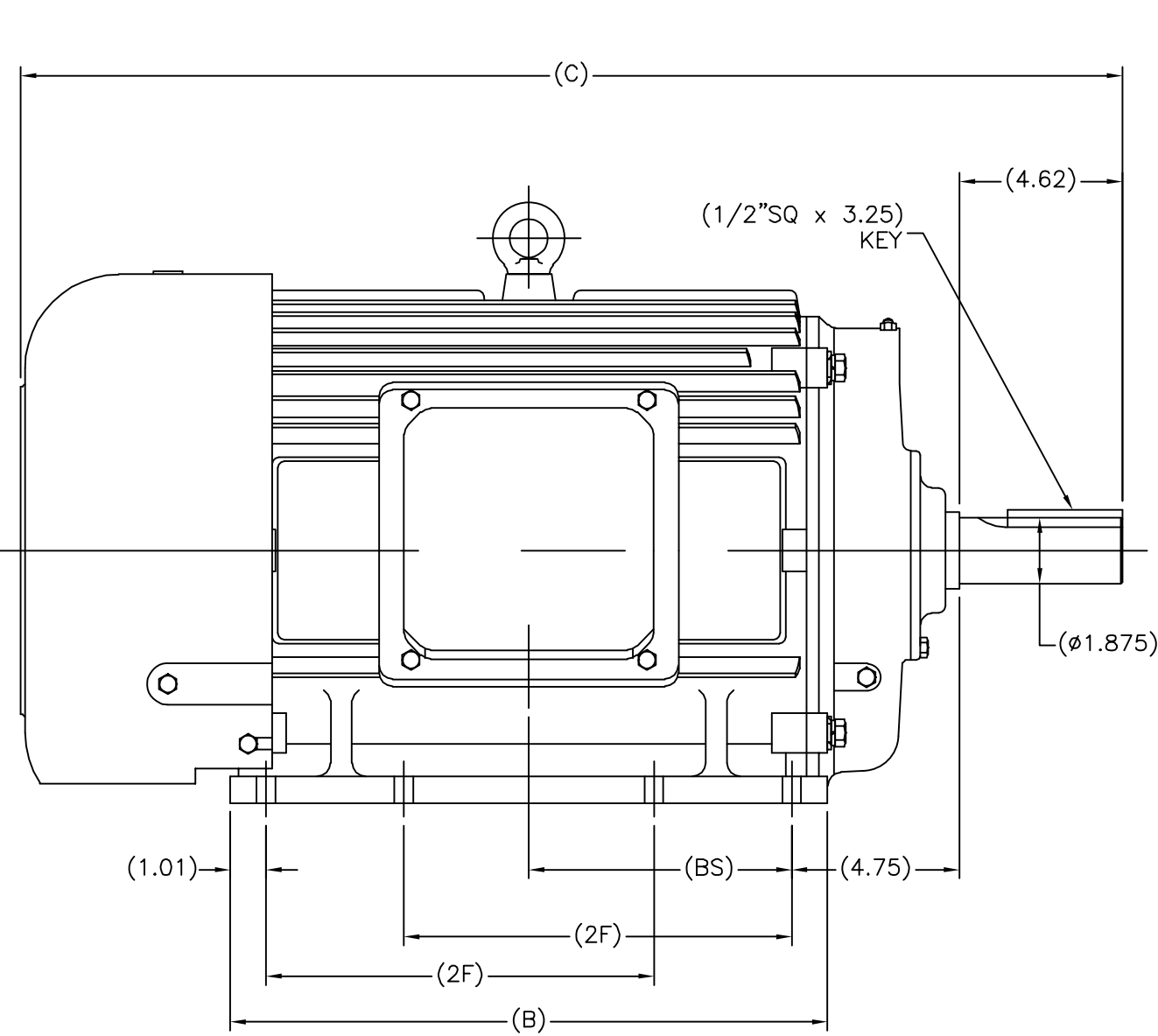
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	1185 & 985 rpm	Service Factor	1.15 & 1.15
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	52/26 & 48.5/24.2 A	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
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	6	Rotation	Reversible
Resistance Main	.4578 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	31.34 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	EE7308AA	Outline Drawing	SS620245-286T

SS620245



(MAY NOT BE DRAWN TO SCALE)

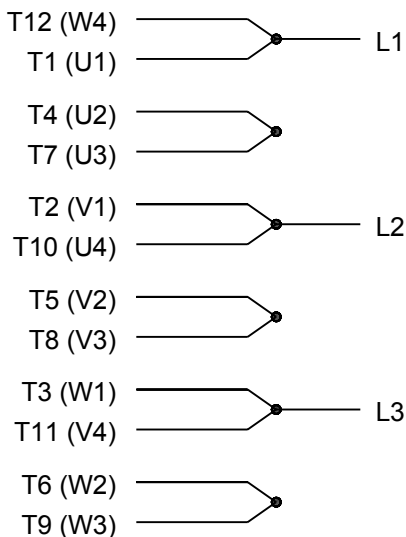
(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

284T	30.16	15.75	9.50	6.86
286T	31.34	16.93	11.00	7.45
FRAME	C	B	2F	BS

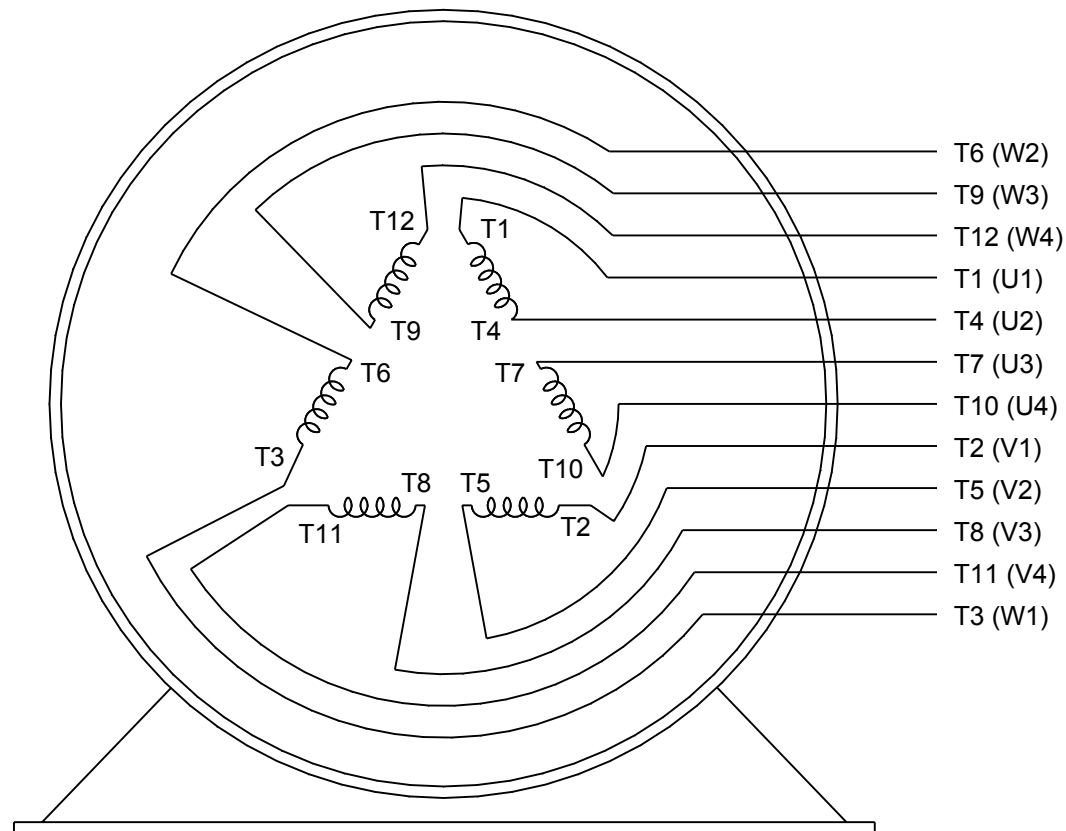
				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION		DRAWN MSG 01-12-2010					
				DEC.	INCHES			CHK	MJS 01-13-2010				
				.X	±.1			APPD	SB 01-13-2010				
				.XX	±.03	TITLE OUTLINE 280T FR. – TEFC		SCALE	1=4				
				.XXX	±.005			REF					
1	ADDED 'BS' DIM. UPDATED TITLE BLOCK ECO-0048910	RFH 04/07/2014	EH	.XXXX	±.0005	MAT'L.	FMF						
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	SS620245	SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST				B	SS620245				1



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	THIRD ANGLE PROJECTION
DATE 01-12-1994	
APPROVED BY GK	
DATE 01-14-1994	
REFERENCE	

 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#: 286TTFCA6076 AA

WINDING#: CHT28660001 NONE 1

CONN. DIAGRAM: EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620245

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	1200	1185&985	286T	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	52/26&48.5/24 .2	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 77&76	3/4 LOAD PF: 71	1/2 LOAD PF: 60	91	SQ CAGE INV RATED	25.2 / 12.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
89 LB-FT	258 / 129	147 LB-FT 165	196 LB-FT 220	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	6.2 LB-FT^2	- LB-FT^2	20 SEC.	2	- 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						
6311	6210	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: 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	

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DATE: 06/27/2017 03:52:09 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 15-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



286TTFCA6076

Submittal

Data @ 460 V

Motor Load Data

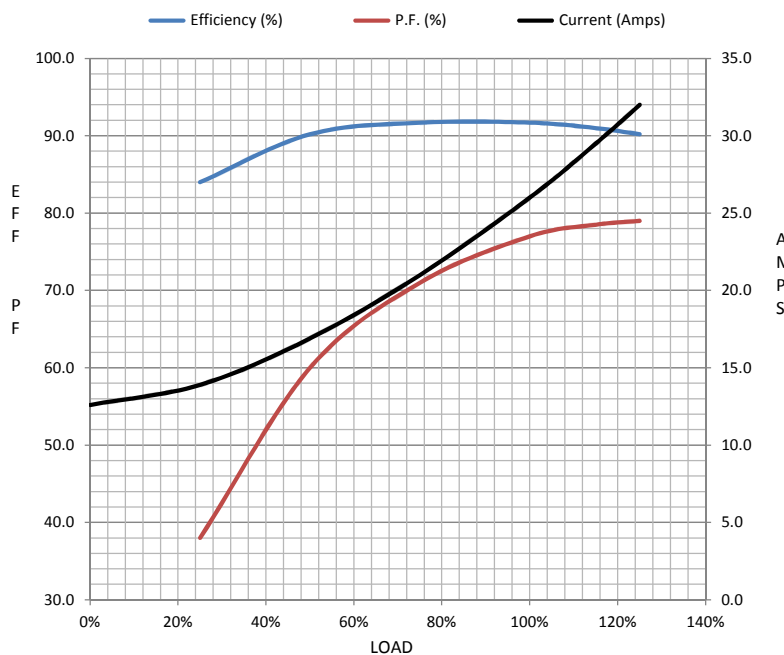
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.6	13.9	16.9	21.0	26.0	29.5	32.0	129	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	102	112	147	
RPM	1200	1195	1190	1182	1175	1,172	1170	0	
Efficiency (%)		84.0	90.2	91.7	91.7	91.0	90.2		
P.F. (%)	4.5	38.0	60.0	71.0	77.0	78.5	79.0	37.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1110	1175	1200
Current (Amps)	129	116	78.0	26.0	12.6
Torque (ft-lb)	147	135	196	89.0	0.00

Information Block

HP	20.0			
Sync. RPM	1200			
Frame	286			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	6.2 Lb-Ft²			
Ref Wdg	CHT28660001 NONE			
Sound Pressure @ 1M	56 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS620245			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3020	0.1620	0.8340	1.8340	20.7100



Speed -Torque Curve

