

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTFCA6012

Catalog No: GT3427

Globetrotter® Close-Coupled Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 284JP Frame, TEFC



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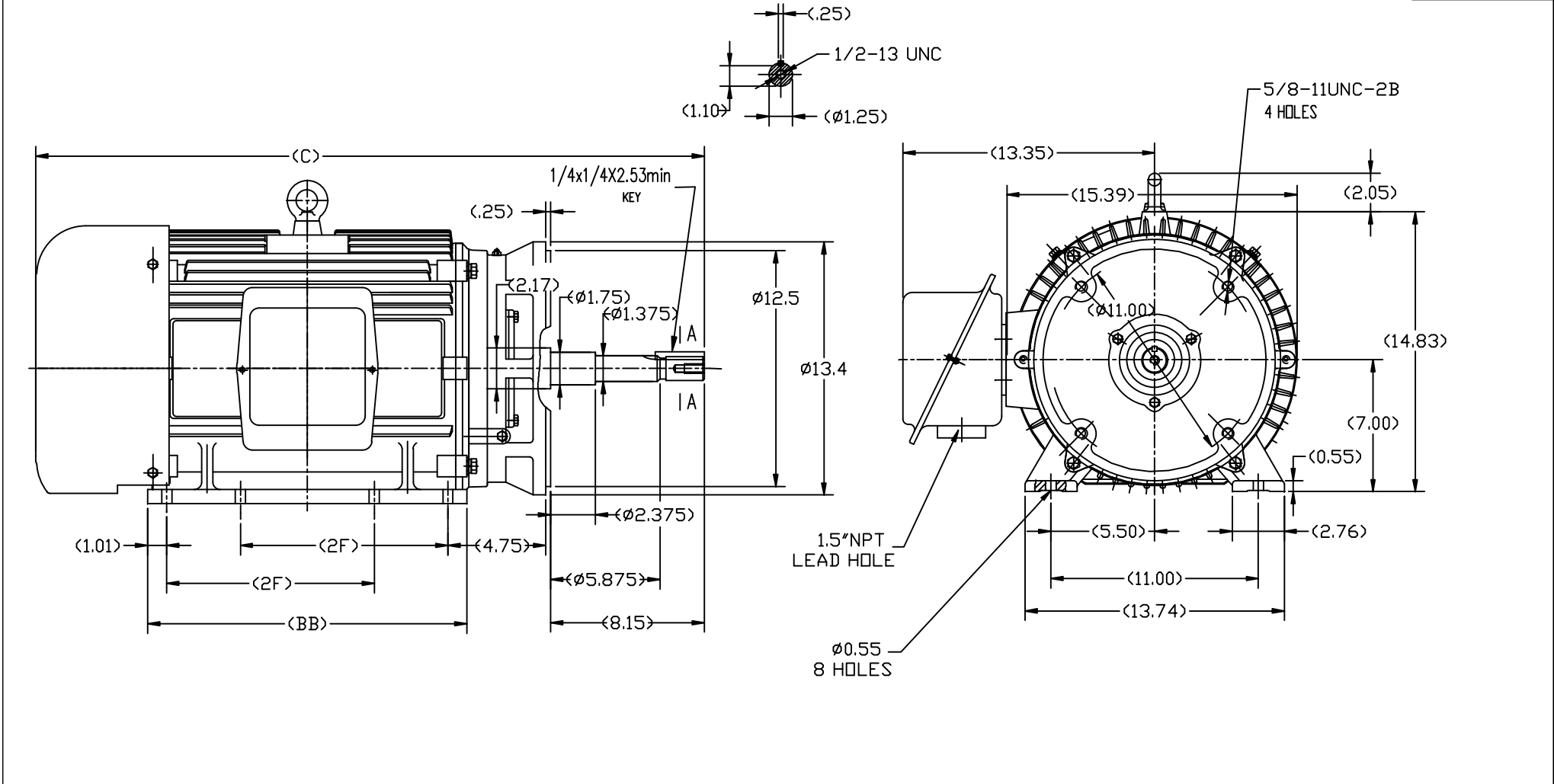
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	3560 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	284JP	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	56/28 & 55/27.5 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6211	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

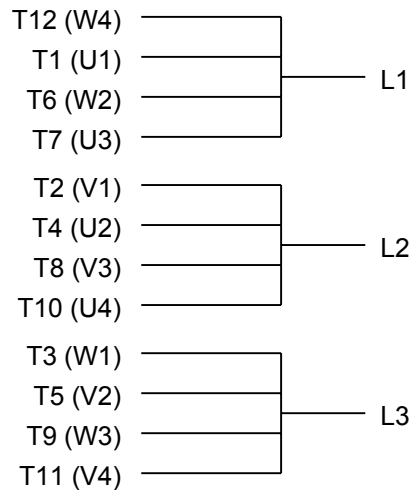
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.275 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JP	Overall Length	33.82 in
Frame Length	11.42 in	Shaft Diameter	1.250 in
Shaft Extension	8.15 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS620568-284TC	Connection Drawing	EE7308AA

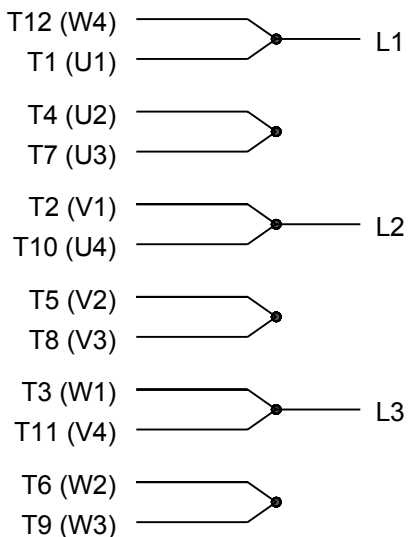


284TC	33.82	15.75	9.50
286TC	35.00	16.93	11.00
FRAME	C	BB	2F

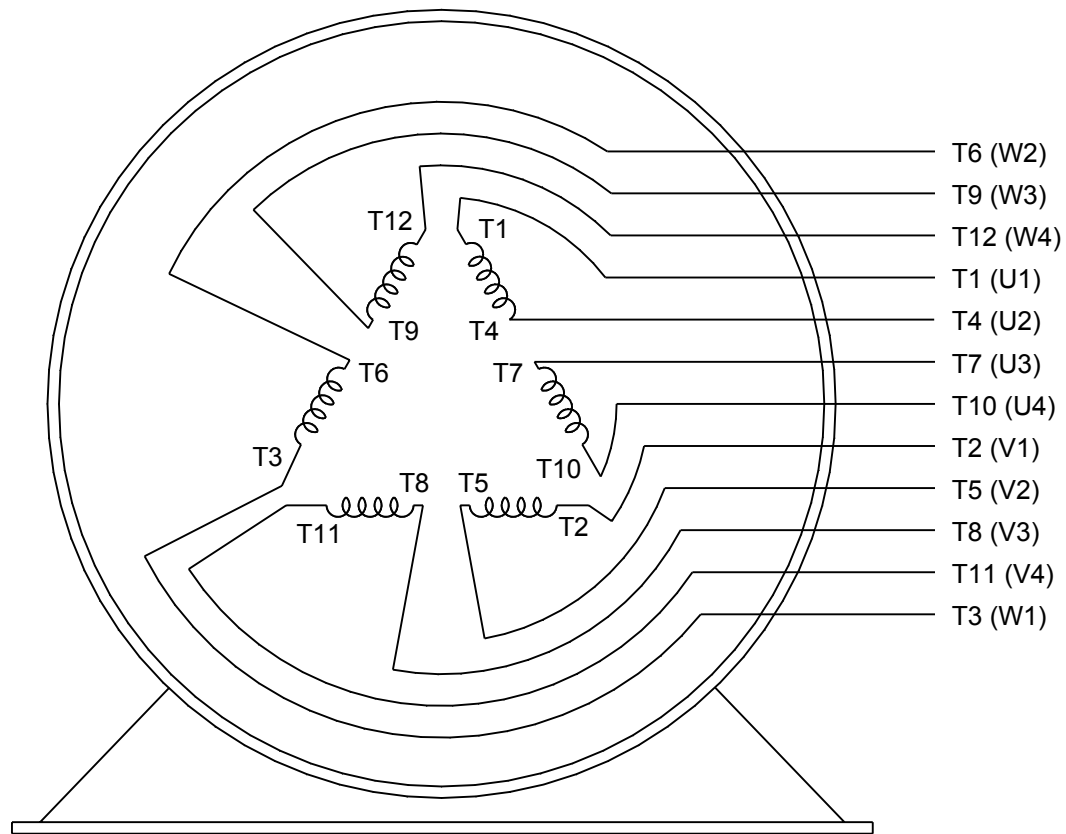
				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN Lee 05-16-2012			
				DEC.	INCHES		CHK HPH 05-16-2012			
				X	±.1		APPD JGX 05-16-2012			
				XX	±.03		SCALE 2=13			
				XXX	±.005		REF			
				XXXX	±.0005	MAT'L	TEFC-284/286JP FR-CAST IRON			
							FMF	HWADA		
NO.	REVISION		BY & DATE	CHK	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	CAD FILE		SS620568	SIZE	DRAWING NO.	REV.
				DIST				B	SS620568	



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#: 284TTFCA6012 AA
 CONN. DIAGRAM: EE7308AA
 OUTLINE: SS620568

WINDING#: CHT28420001 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	3600	3560&2960	284JP	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	56/28&55/27.5	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91.7	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&89.5	3/4 LOAD PF: 87	1/2 LOAD PF: 80	91	SQ CAGE INV RATED	16 / 8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
37 LB-FT	364 / 182	84 LB-FT 225	110 LB-FT 295	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	3 LB-FT^2	32 LB-FT^2	20 SEC.	2	525 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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	JP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6211	6211						

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

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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: 06/27/2017 12:59:10 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



284TTFCA6012

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.0	10.0	15.5	22.0	28.0	32.0	35.5	182	
Torque (ft-lb)	0.00	9.2	18.5	27.5	37.0	42.5	46.2	84.0	
RPM	3600	3590	3580	3570	3560	3,555	3550	0	
Efficiency (%)		87.5	91.7	92.4	91.7	91.7	91.0		
P.F. (%)	9.0	68.0	80.0	87.0	89.0	90.0	90.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1800	3350	3560	3600																													
Current (Amps)	182	165	110	28.0	8.0																													
Torque (ft-lb)	84.0	60.0	110	37.0	0.00																													
Efficiency (%) P.F. (%) Current (Amps) <table><caption>Graph Data</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>87</td><td>21</td><td>8.0</td></tr><tr><td>50</td><td>92</td><td>28</td><td>11.0</td></tr><tr><td>75</td><td>93</td><td>32</td><td>16.5</td></tr><tr><td>100</td><td>92</td><td>35</td><td>28.0</td></tr><tr><td>125</td><td>91</td><td>36</td><td>37.0</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	87	21	8.0	50	92	28	11.0	75	93	32	16.5	100	92	35	28.0	125	91	36	37.0					
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	87	21	8.0																									
						50	92	28	11.0																									
						75	93	32	16.5																									
						100	92	35	28.0																									
						125	91	36	37.0																									
						Information Block																												
						HP	25.0																											
						Sync. RPM	3600																											
						Frame	284																											
						Enclosure	TEFC																											
						Construction	TFC																											
						Voltage	30/460#190/381V																											
						Frequency	60	Hz																										
						Design	A																											
						LR Code letter	G																											
Service Factor	1.15																																	
Temp Rise @ FL	50	° C																																
Duty	CONT																																	
Ambient	40	° C																																
Elevation	1,000 feet																																	
Rotor/Shaft wk ²	3.0	Lb-Ft ²																																
Ref Wdg	CHT28420001 NONE																																	
Sound Pressure @ 1M	72	dBA																																
VFD Rating	VARIABLE 10:1																																	
Outline Dwg	SS620568																																	
Conn. Diag	EE7308AA																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.1870	0.1080	0.7140	0.9300	33.4530																														

Speed -Torque Curve

