

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTFCA6037

Catalog No: GT3428

Globetrotter® Close-Coupled Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 284JP Frame, TEFC



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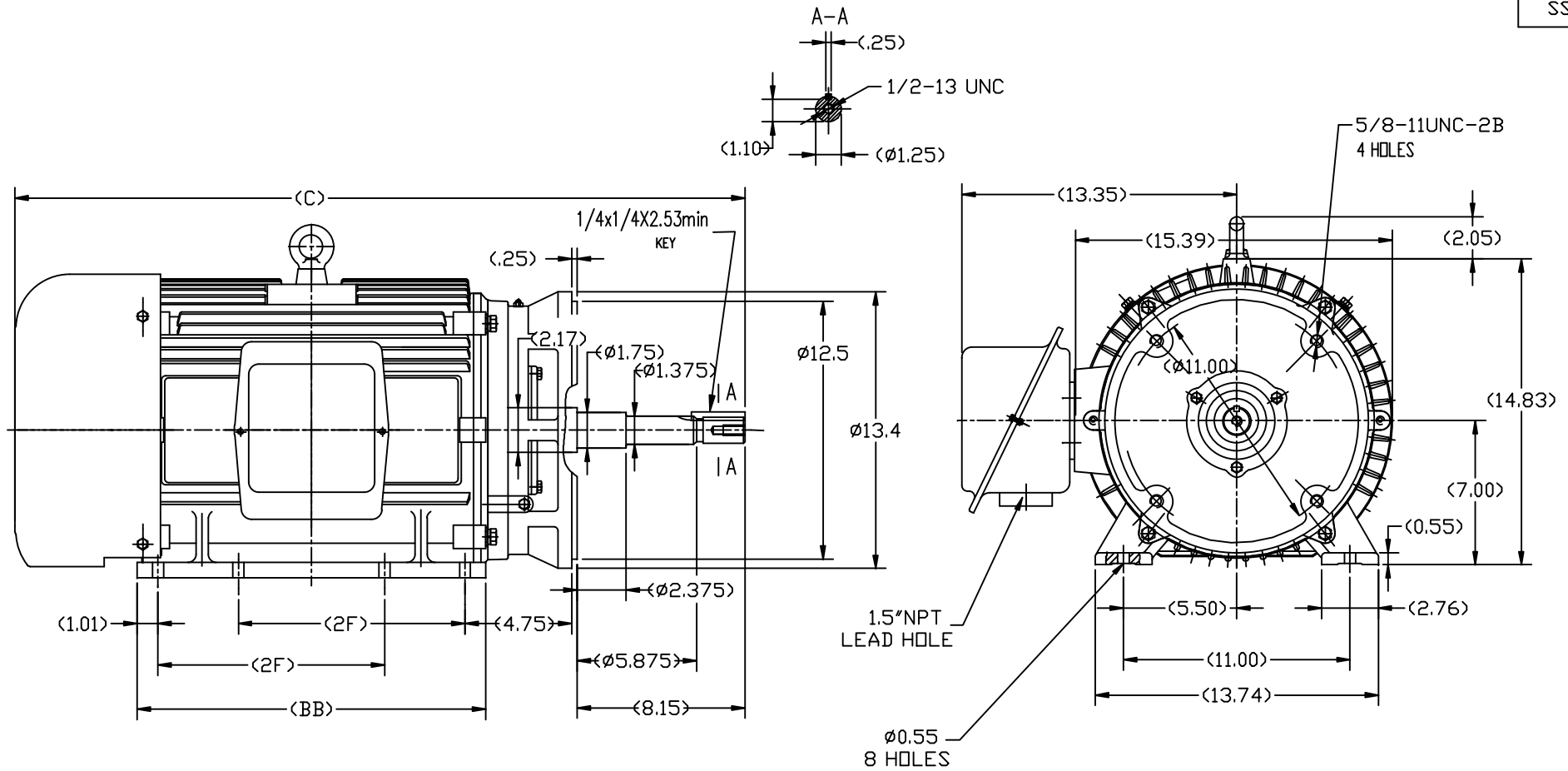
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1478 rpm	Service Factor	1.15 & 1.15
Frame	284JP	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	61/30.5 & 60/30 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

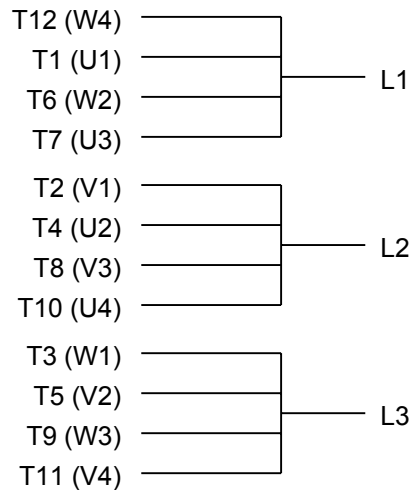
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.255 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
Connection Drawing	EE7308AA	Outline Drawing	SS620568-284TC

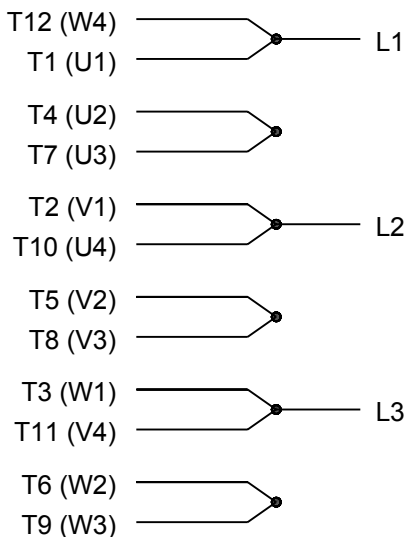


284TC	33.82	15.75	9.50
286TC	35.00	16.93	11.00
FRAME	C	BB	2F

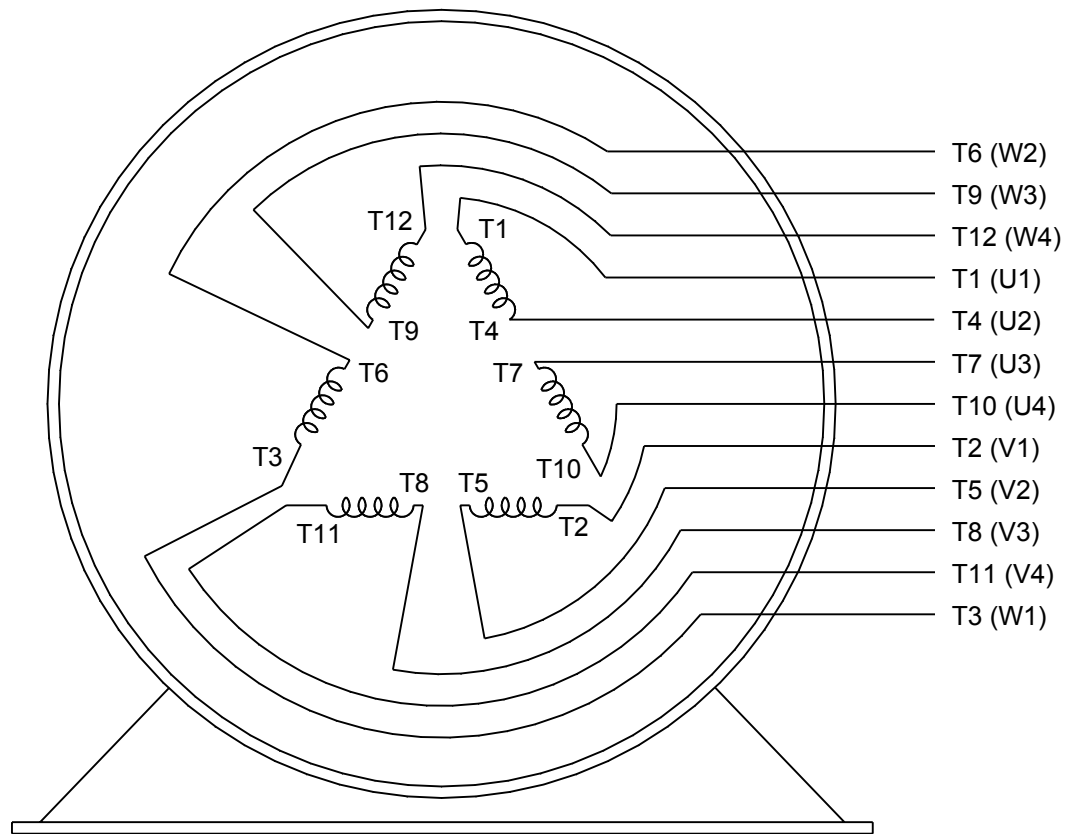
TOLERANCES UNLESS SPECIFIED				REGAL-BELOIT CORPORATION		DRAWN Lee 05-16-2012	
DEC.	INCHES					CHK	HPH 05-16-2012
X	±.1					APPD	JGX 05-16-2012
XX	±.03					SCALE	2=13
XXX	±.005					REF	
XXXX	±.0005					FMF	HWADA
ANG	± 1/2					PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED 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
				DIST			B
							DRAWING NO.
							SS620568
							REV.



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#: 284TTFCA6037 AA
 CONN. DIAGRAM: EE7308AA
 OUTLINE: SS620568

WINDING#: CHT28440001 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	1800	1780&1478	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	61//30.5&60/3 0	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 93.6&93.6	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81&81	3/4 LOAD PF: 77	1/2 LOAD PF: 67	93	SQ CAGE INV RATED	25 / 12.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
73.8 LB-FT	350 / 175	133 LB-FT 180	193 LB-FT 260	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	5.2 LB-FT^2	175 LB-FT^2	20 SEC.	2	575 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						
6311	6211	POLYREX EM	JP	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 01:03:46 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



284TTFCA6037

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.5	14.5	18.8	24.0	31.0	35.0	37.5	175	
Torque (ft-lb)	0.00	18.3	36.8	55.2	73.8	85.0	92.5	133	
RPM	1800	1795	1790	1785	1775	1,772	1770	0	
Efficiency (%)		89.5	93.0	93.6	93.6	93.6	93.0		
P.F. (%)	4.5	45.0	67.0	77.0	81.0	82.0	83.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																												
Speed (RPM)	0	900	1650	1775	1800	HP	25.0																											
Current (Amps)	175	165	120	31.0	12.5	Sync. RPM	1800																											
Torque (ft-lb)	133	120	193	73.8	0.00	Frame	284																											
— Efficiency (%) — P.F. (%) — Current (Amps) <table><caption>Graph Data Points (Estimated)</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>89</td><td>45</td><td>12.5</td></tr><tr><td>50</td><td>92</td><td>65</td><td>18.0</td></tr><tr><td>75</td><td>93</td><td>78</td><td>25.0</td></tr><tr><td>100</td><td>94</td><td>82</td><td>32.0</td></tr><tr><td>125</td><td>94</td><td>83</td><td>37.5</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	89	45	12.5	50	92	65	18.0	75	93	78	25.0	100	94	82	32.0	125	94	83	37.5	Enclosure	TEFC			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
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						100	94	82	32.0																									
						125	94	83	37.5																									
						Construction	TFC																											
						Voltage	30/460#190/381V																											
						Frequency	60 Hz																											
						Design	B																											
						LR Code letter	G																											
						Service Factor	1.15																											
						Temp Rise @ FL	50 ° C																											
						Duty	CONT																											
						Ambient	40 ° C																											
						Elevation	1,000 feet																											
Rotor/Shaft wk²	5.2 Lb-Ft²																																	
Ref Wdg	CHT28440001 NONE																																	
Sound Pressure @ 1M	75 dBA																																	
VFD Rating	VARIABLE 10:1																																	
Outline Dwg	SS620568																																	
Conn. Diag	EE7308AA																																	
Additional Specifications:																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.1750	0.1080	0.6380	1.1750	21.4140																														

Speed -Torque Curve

