

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TSTDCA6001

Catalog No: GT0030

Globetrotter® General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 284TS Frame, DP



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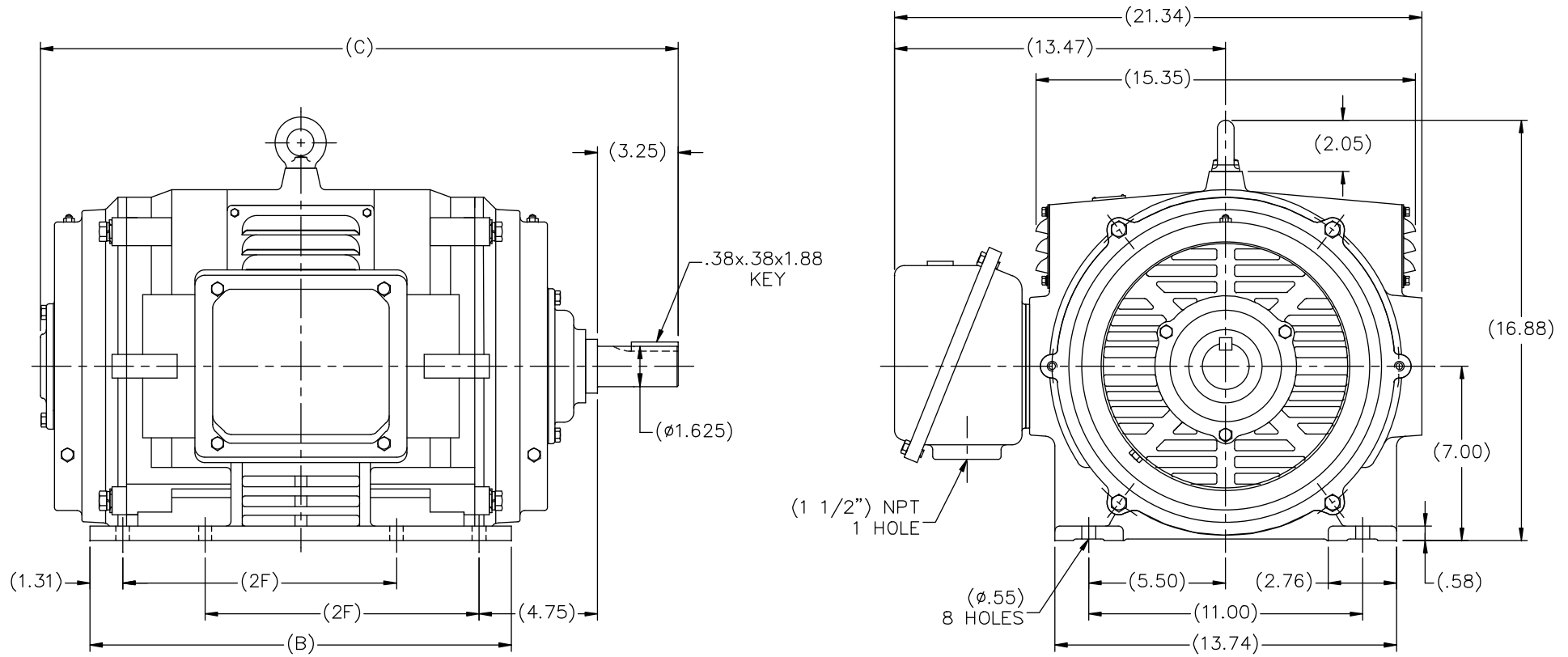
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3553 & 2950 rpm	Service Factor	1.15 & 1.15
Frame	284TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	66.5/33.5 & 68/34 A	Power Factor	90
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	23
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	.335 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	24.41 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	SS620239-284TS	Connection Drawing	EE7308AA

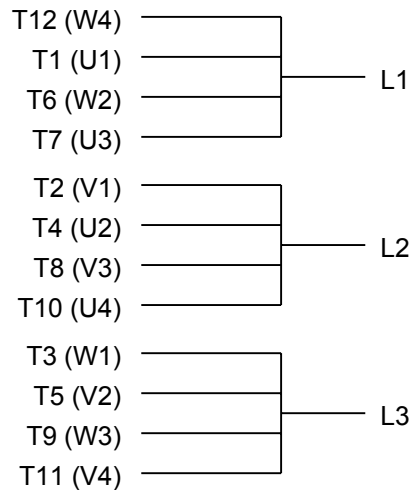


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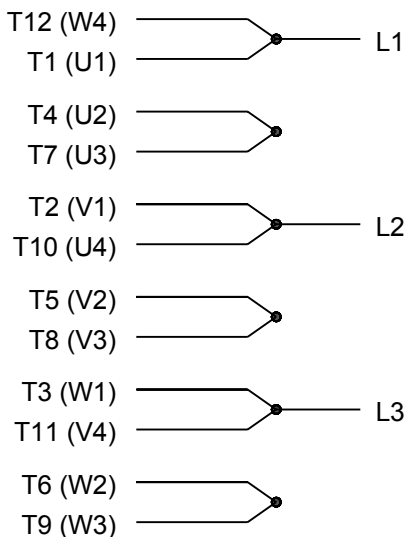
DIMENSIONS IN TABLE ARE CONSIDERED (REFERENCE)

284TS	24.41	15.55	9.50
286TS	25.79	16.93	11.00
FRAME	C	B	2F

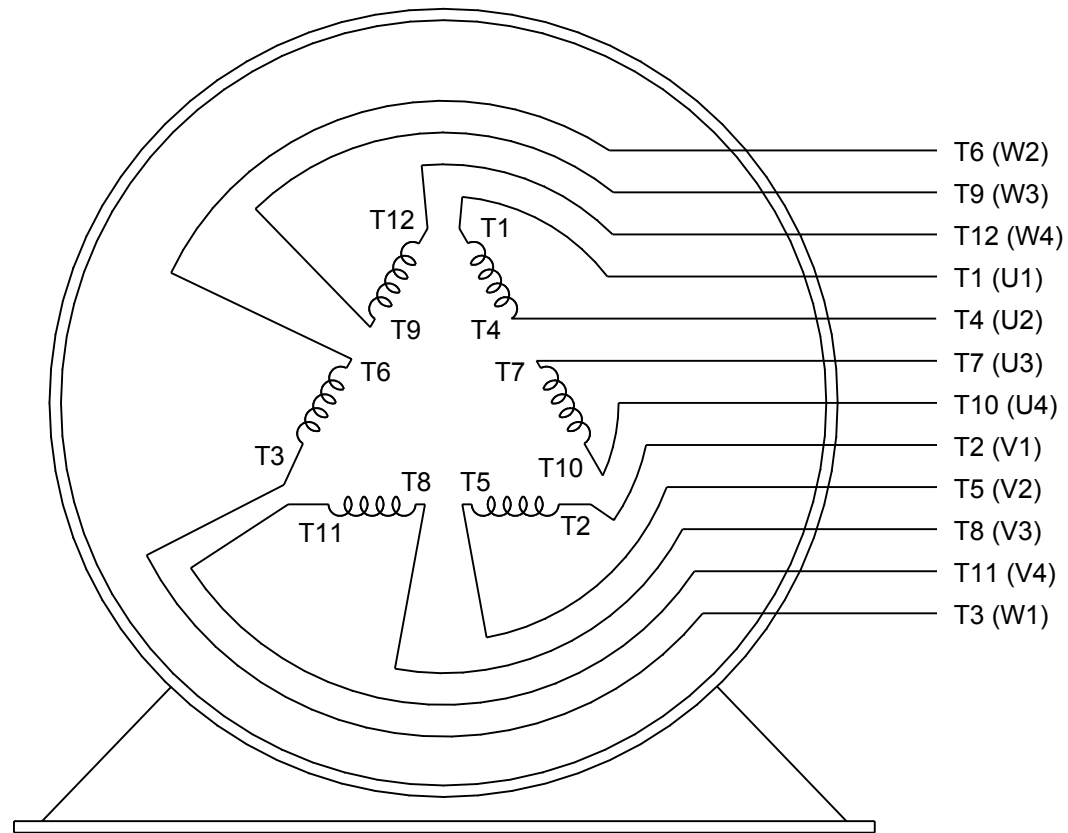
		TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION	DRAWN MSJ 12-15-2009	
		DEC.	INCHES		CHK	TJW 12-16-2009
		.X	±.1	TITLE OUTLINE 284/286T FR. - ODP - CAST IRON	APPD	SB 12-16-2009
		.XX	±.03		SCALE	5=18
		.XXX	±.005		REF	
		.XXXX	±.0005		FMF	HWADA
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV
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				DIST		DRAWING NO. PAGE OF
						SS620239



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#: 284TSTDCA6001 BD
 CONN. DIAGRAM: EE7308AA
 OUTLINE: SS620239

WINDING#: CHT28420004 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3553&2950	284TS	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	66.5/33.5&68/ 34	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: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90&90.5	3/4 LOAD PF: 88.5	1/2 LOAD PF: 83	91	SQ CAGE INV RATED	17.4 / 8.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	432 / 216	76.5 LB-FT 171	115 LB-FT 258	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	2.3 LB-FT^2	35 LB-FT^2	15 SEC.	2	375 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	D RIP 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	TS	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

* 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: 06/23/2017 07:42:18 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



284TSTDCA6001

Submittal

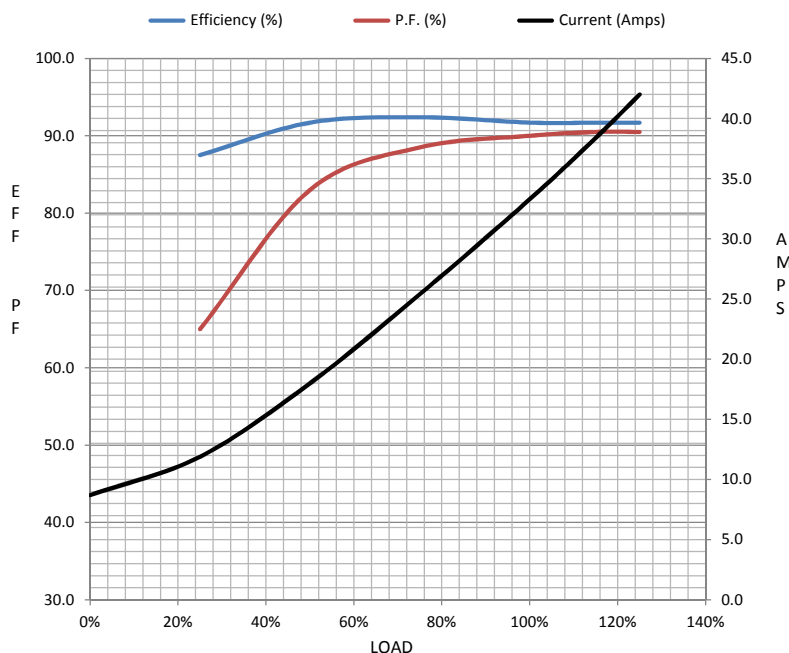
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.7	11.9	18.0	25.4	33.3	38.4	42.0	216	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	55.5	76.5	
RPM	3600	3588	3577	3566	3553	3,545	3540	0	
Efficiency (%)		87.5	91.7	92.4	91.7	91.7	91.7		
P.F. (%)	8.0	65.0	83.0	88.5	90.0	90.5	90.5	36.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	1800	3315	3553	3600	HP	30.0
Current (Amps)	216	195	130	33.3	8.7	Sync. RPM	3600
Torque (ft-lb)	76.5	69.0	115	44.5	0.00	Frame	284



HP	30.0			
Sync. RPM	3600			
Frame	284			
Enclosure	DP			
Construction	TDC			
Voltage	230/460#190/38(V			
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	25	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	2.30	Lb-Ft²		
Ref Wdg	CHT28420004	NONE		
Sound Pressure @ 1M	78	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620239			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2120	0.1030	0.7940	0.6430	30.4290

Speed -Torque Curve

