

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTDCA6001

Catalog No: GT0033

Globetrotter® General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 286TS Frame, DP



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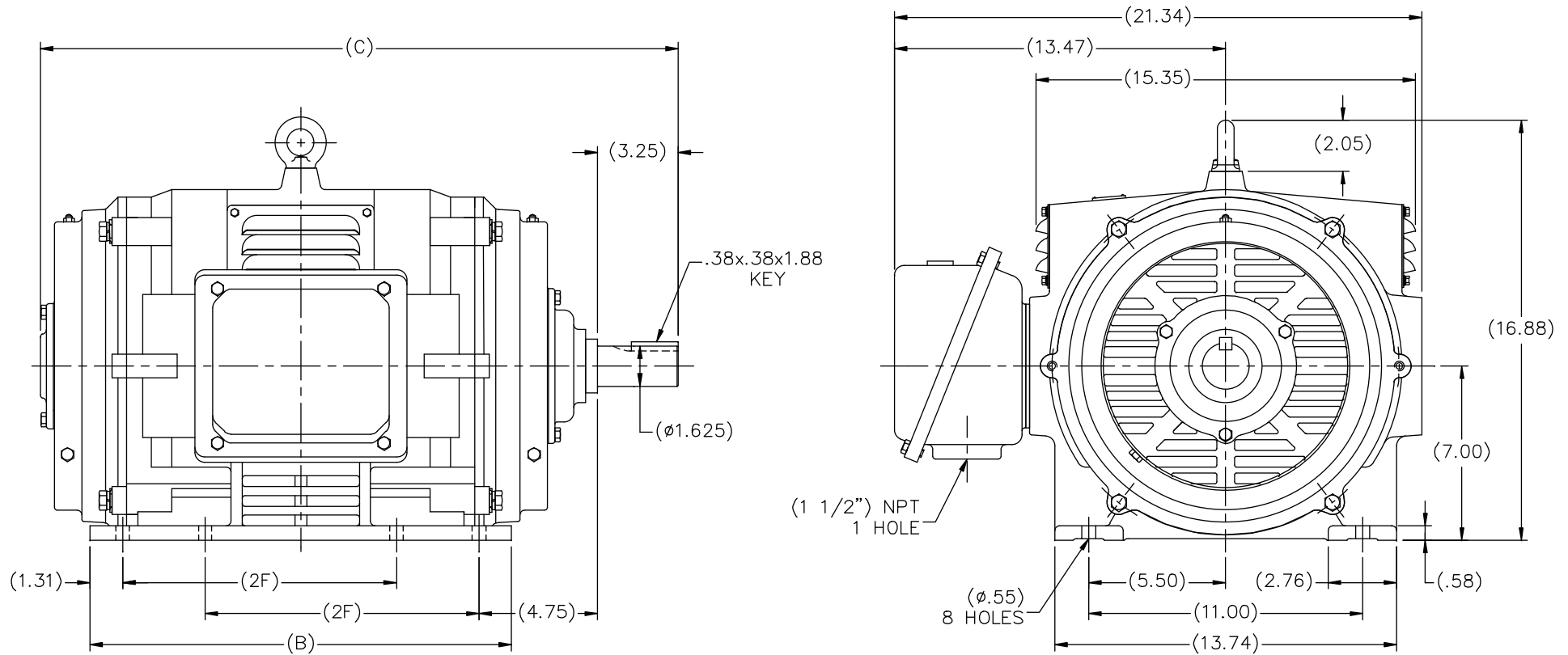
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	3560 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	90/45 & 81/40.5 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	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.187 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	25.79 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620239-286TS	Connection Drawing	A-EE7308AA

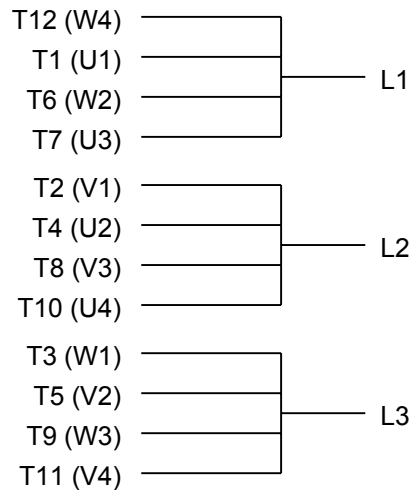


(MAY NOT BE DRAWN TO SCALE)

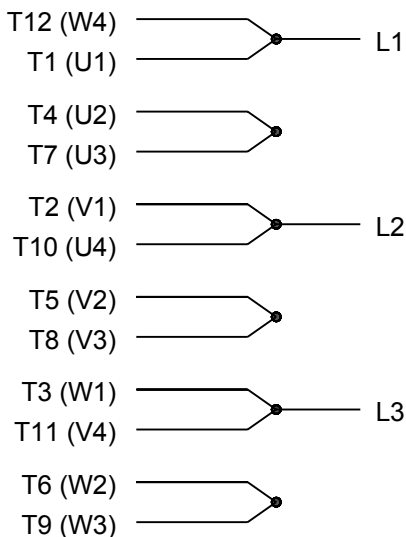
DIMENSIONS IN TABLE ARE CONSIDERED (REFERENCE)

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

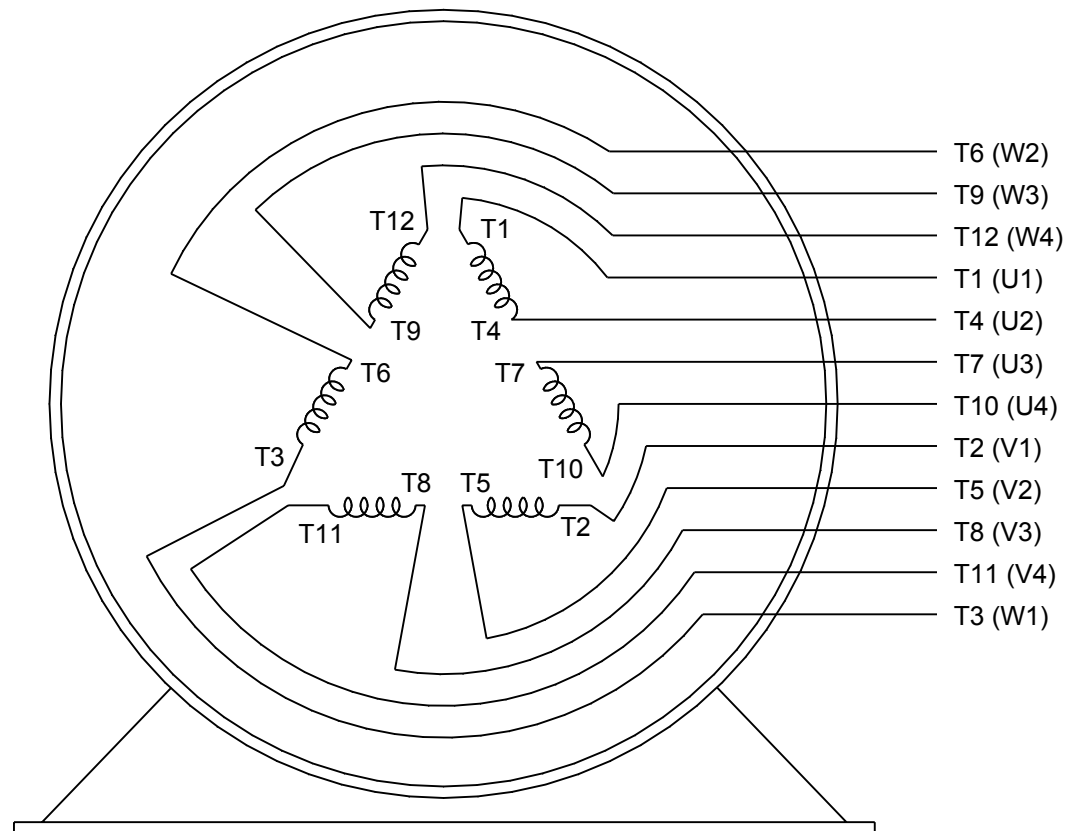
					TOLERANCES UNLESS SPECIFIED	 REGAL - BELOIT CORPORATION	DRAWN MSJ 12-15-2009							
				DEC.	INCHES		CHK TJW 12-16-2009							
				.X	±.1		APPD SB 12-16-2009							
				.XX	±.03		SCALE 5=18							
				.XXX	±.005		REF							
				.XXXX	±.0005		FMF HWADA							
NO.	REVISION		BY & DATE		CHK ANG ±7'30"	FINISH	PREV							
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							DIST					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	 Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 286TSTDCA6001 BD

WINDING#: CHT28620002 NONE 1

CONN. DIAGRAM: A-EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620239

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	3600	3560&2960	286TS	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	90/45&81/40.5	PWS & YDRUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 92.4&92.4	3/4 LOAD EFF: 93	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&89.5	3/4 LOAD PF: 87.5	1/2 LOAD PF: 82	91.7	SQ CAGE INV RATED	24 / 12

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59 LB-FT	580 / 290	125 LB-FT 210	157 LB-FT 266	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	3.2 LB-FT^2	45 LB-FT^2	15 SEC.	2	500 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	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: CONSTANT 2:1
	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: 06/21/2017 10:09:35 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TSTDCA6001

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.0	16.0	24.5	34.0	44.5	51.5	56.0	290	
Torque (ft-lb)	0.00	14.6	29.5	44.2	59.0	68.2	74.2	125	
RPM	3600	3590	3580	3568	3555	3,550	3545	0	
Efficiency (%)		91.0	91.7	93.0	92.4	92.4	92.4		
P.F. (%)	7.0	64.0	82.0	87.5	90.0	90.0	90.0	39.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	1800	3375	3555	3600					
Current (Amps)	290	270	175	44.5	12.0					
Torque (ft-lb)	125	110	157	59.0	0.00					
Efficiency (%) P.F. (%) Current (Amps) LOAD						Information Block				
						HP		40.0		
						Sync. RPM		3600		
						Frame		286		
						Enclosure		DP		
						Construction		TDC		
						Voltage		30/460#190/381V		
						Frequency		60 Hz		
						Design		A		
						LR Code letter		F		
						Service Factor		1.15		
						Temp Rise @ FL		35 °C		
						Duty		CONT		
						Ambient		40 °C		
						Elevation		1,000 feet		
						Rotor/Shaft wk ²		3.2 Lb-Ft ²		
						Ref Wdg		CHT28620002 NONE		
Sound Pressure @ 1M		78 dBA								
VFD Rating		CONSTANT 2:1								
Outline Dwg		B-SS620239								
Conn. Diag		A-EE7308AA								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.1240		0.0750		0.4750		0.6380		22.5460		

Speed -Torque Curve

