

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTFCA6001

Catalog No: GT1030

Globetrotter® General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 286TS Frame, TEFC



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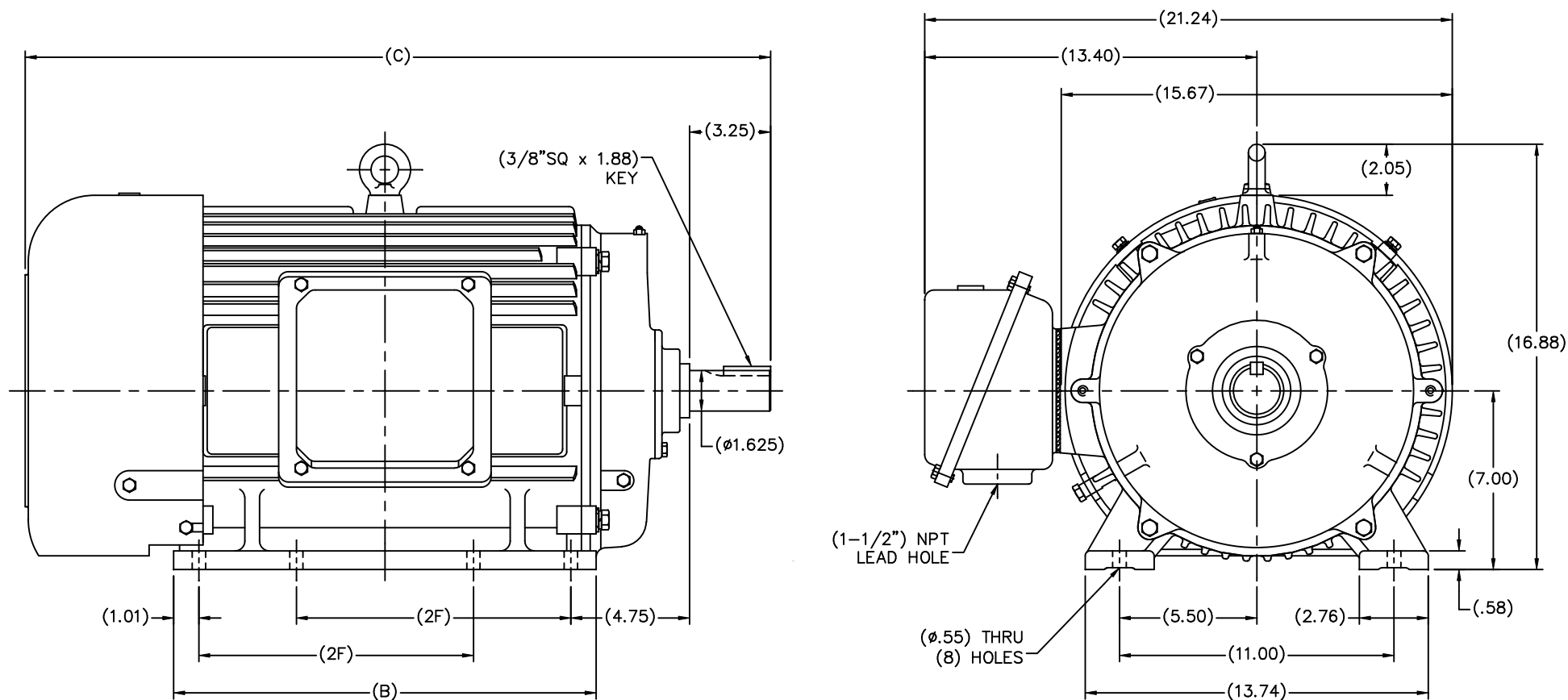
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2963 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	68/34 & 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	43
Number of Speeds	1		

Technical Specifications

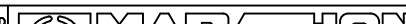
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.25 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	30.00 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	VARIABLE 10:1
Connection Drawing	A-EE7308AA	Outline Drawing	SS620246-286TS

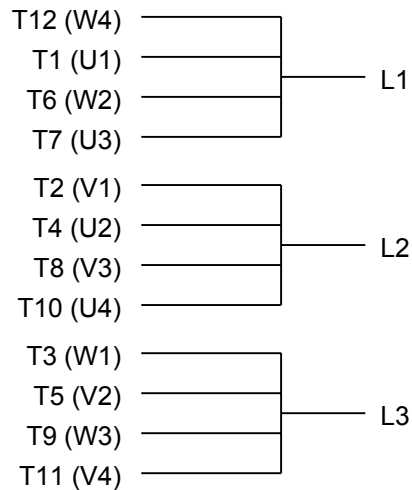


(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

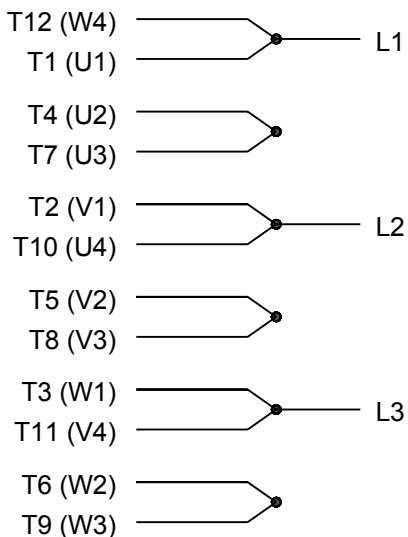
284TS	28.82	15.75	9.50
286TS	30.00	16.93	11.00
FRAME	C	B	2F

(MAY NOT BE DRAWN TO SCALE)

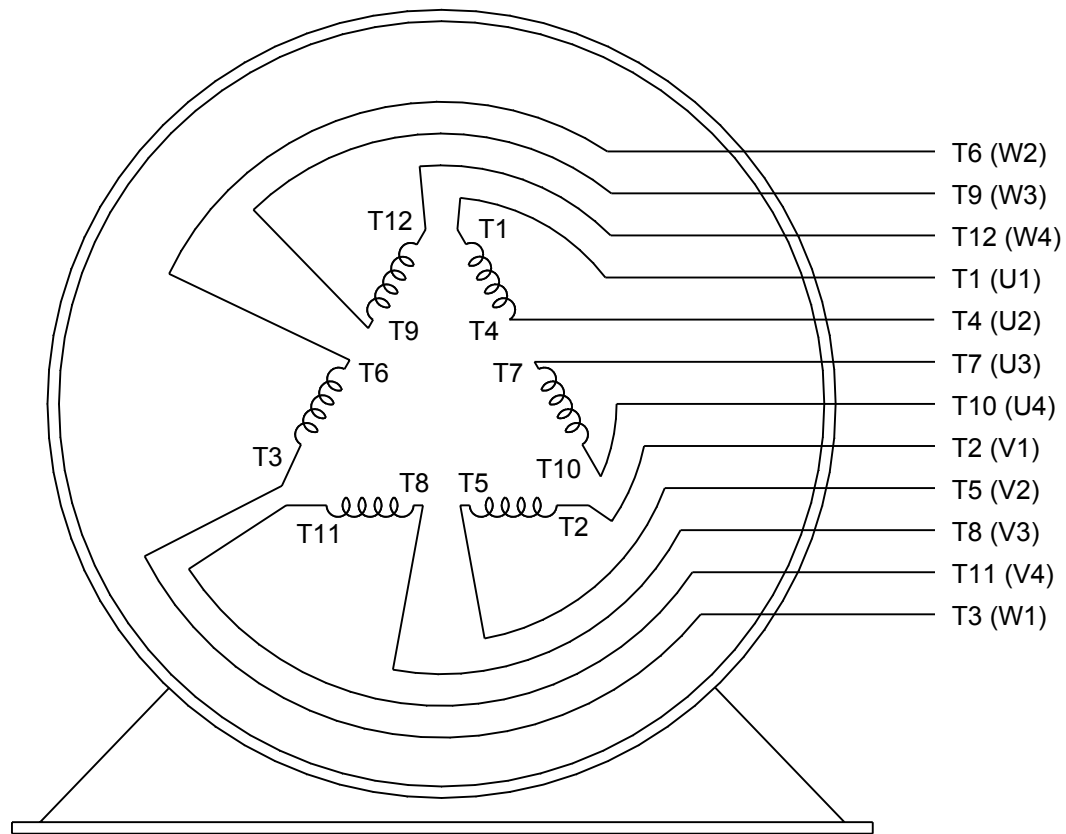
					TOLERANCES UNLESS SPECIFIED		DRAWN MSG 01-12-2010								
				DEC.	INCHES		CHK MJS 01-13-2010								
				.X	±.1		APPD SB 01-13-2010								
				.XX	±.03		TITLE OUTLINE 280TS FR. – TEFC				SCALE 1=4				
				.XXX	±.005						REF				
				.XXXX	±.0005						FMF HUADA				
							MAT'L	PREV							
NO.	REVISION			BY & DATE	CHK	ANG ±7°30"	FINISH								
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							DIST								



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	
DATE 01-14-1994	3Ø-2/1 DELTA-12 LEADS	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 286TSTFCA6001 BB
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS620246

WINDING#: CHT28620004 NONE 4
 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	3555&2963	286TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	68/34&68/34	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 92.4&91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90&88	3/4 LOAD PF: 88	1/2 LOAD PF: 82	91.7	SQ CAGE INV RATED	18 / 9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44 LB-FT	420 / 210	78 LB-FT 177	110 LB-FT 250	60

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	35 LB-FT^2	20 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

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: 06/21/2017 09:37:31 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TSTFCA6001

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.0	12.2	18.5	26.0	33.5	38.5	45.5	210	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.0	51.0	55.5	78.0	
RPM	3600	3590	3580	3570	3553	3,548	3540	0	
Efficiency (%)		87.5	91.7	91.7	91.7	91.7	91.0		
P.F. (%)	9.0	65.0	82.0	88.0	90.0	90.0	90.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	1800	3450	3553	3600	HP	30.0			
Current (Amps)	210	189	130	33.5	9.0	Sync. RPM	3600			
Torque (ft-lb)	78.0	66.0	110	44.0	0.00	Frame	286			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD (%)						Enclosure	TEFC			
						Construction	TFC			
						Voltage	30/460#190/38V			
						Frequency	60 Hz			
						Design	A			
						LR Code letter	G			
						Service Factor	1.15			
						Temp Rise @ FL	60 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	3.0 Lb-Ft ²			
						Ref Wdg	CHT28620004 NONE			
						Sound Pressure @ 1M	72 dBA			
						VFD Rating	VARIABLE 10:1			
						Outline Dwg	B-SS620246			
						Conn. Diag	A-EE7308AA			
Additional Specifications:						0				
0						EQUIV CKT (OHMS / PHASE)				
R1		R2		X1		X2		Xm		
0.1780		0.1040		0.6430		0.8320		29.7040		

Speed -Torque Curve

