

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTFCA6026

Catalog No: GT1028

Globetrotter® General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 284T Frame, TEFC



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RegalRexnord

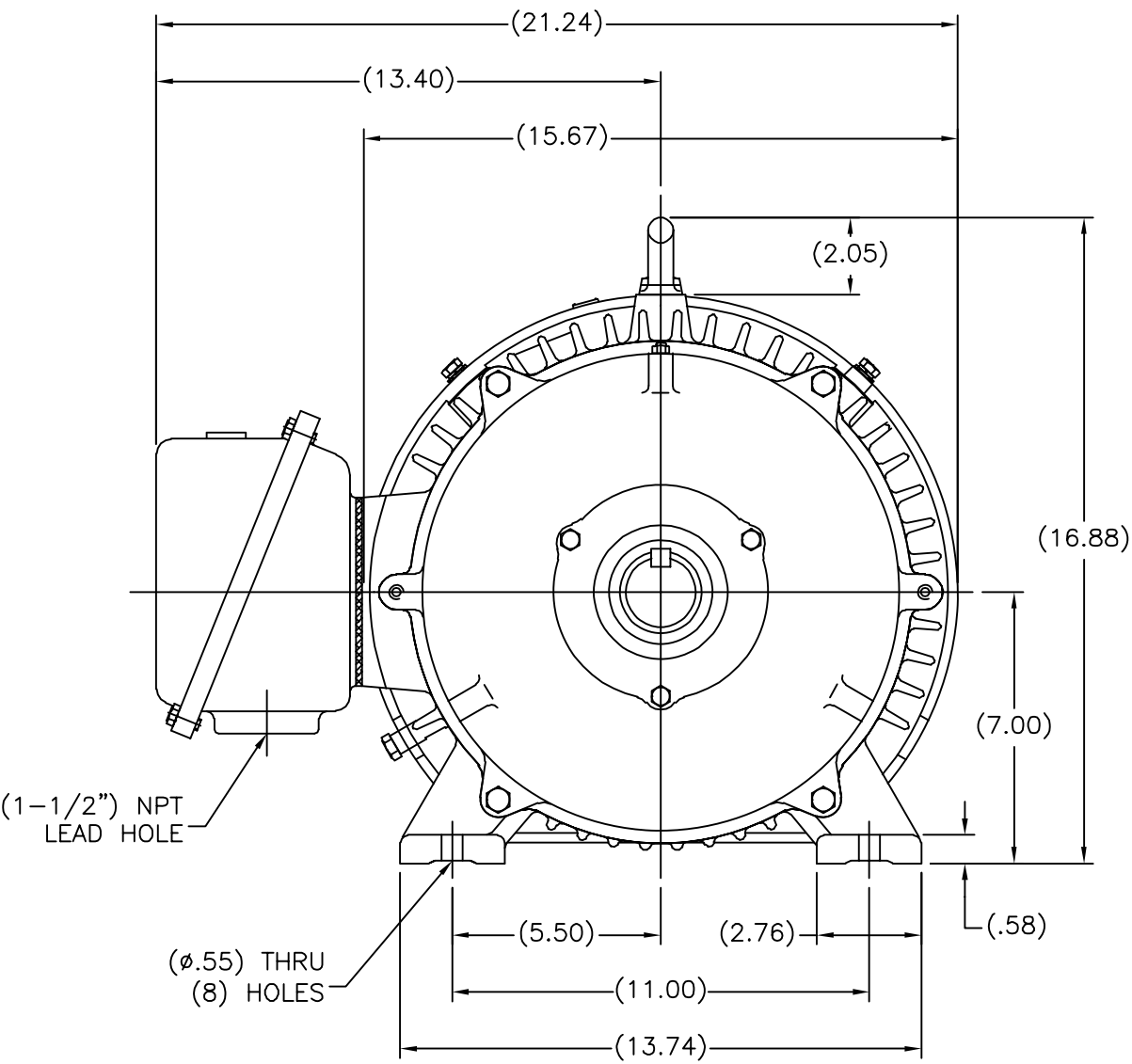
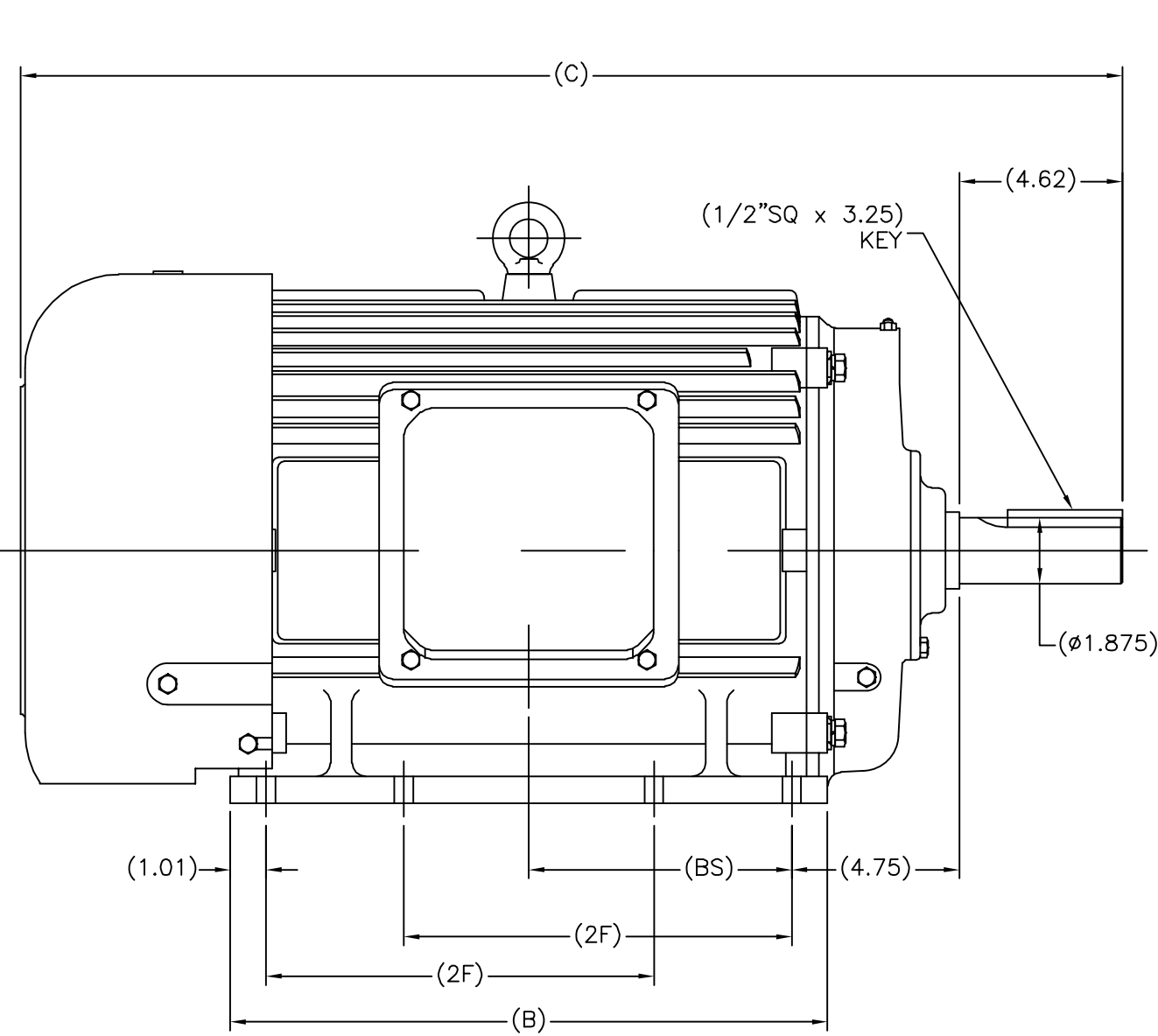
Nameplate Specifications

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	284T	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	6210
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	T	Overall Length	30.16 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	VARIABLE 10:1
Connection Drawing	A-EE7308AA	Outline Drawing	SS620245-284T

SS620245



(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

284T	30.16	15.75	9.50	6.86
286T	31.34	16.93	11.00	7.45
FRAME	C	B	2F	BS

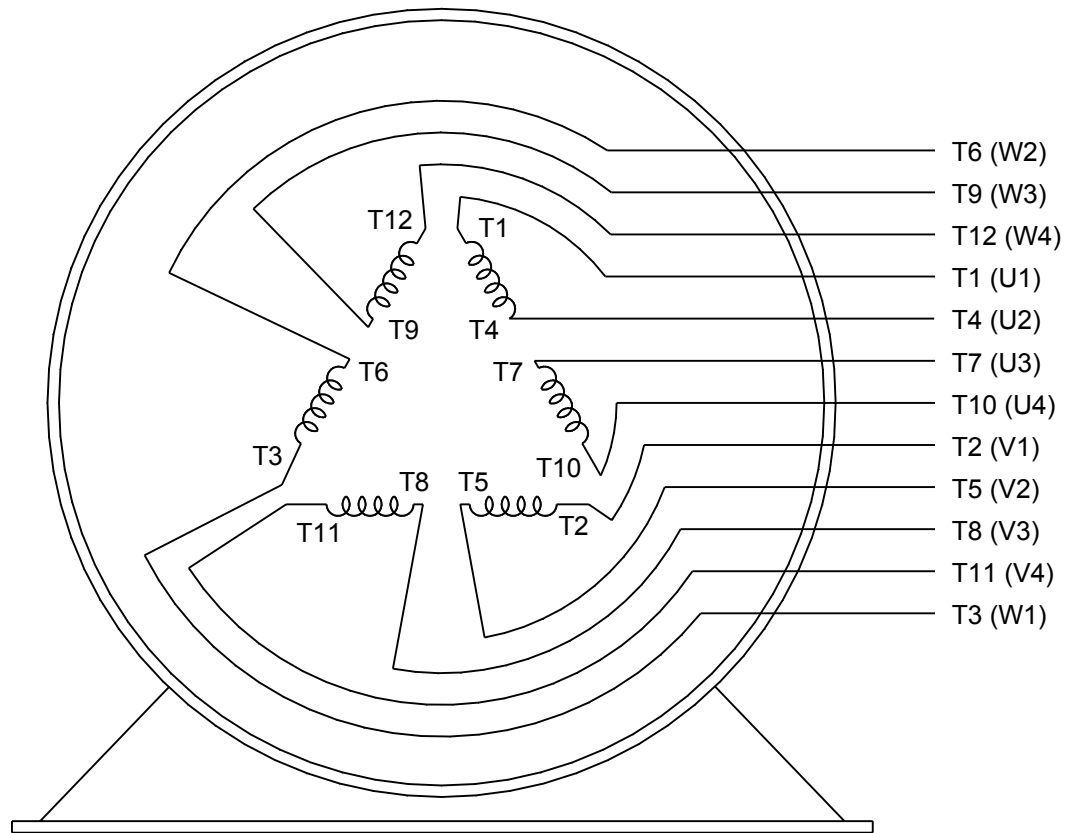
		TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION		DRAWN MSG 01-12-2010	
		DEC.	INCHES			CHK	MJS 01-13-2010
		.X	±.1	TITLE OUTLINE 280T FR. - TEFC		APPD	SB 01-13-2010
		.XX	±.03			SCALE	1=4
		.XXX	±.005	MAT'L.		REF	
1		ADDED 'BS' DIM. UPDATED TITLE BLOCK ECO-0048910	RFH 04/07/2014	EH	.XXXX ±.0005	FMF	
NO.		REVISION	BY & DATE	CHK	ANG ±7'30"	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	01-14-2010	CAD FILE	SS620245
				DIST		SIZE	B
				DRAWING NO.		PAGE	OF
				SS620245		1	1



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#: 284TTFCA6026 AB

WINDING#: CHT28440001 NONE 2

CONN. DIAGRAM: A-EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620245

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	284T	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&60/30	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
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						
6311	6210	POLYREX EM	T	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 01:00:13 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



284TTFCA6026

Submittal

Data @ 460 V

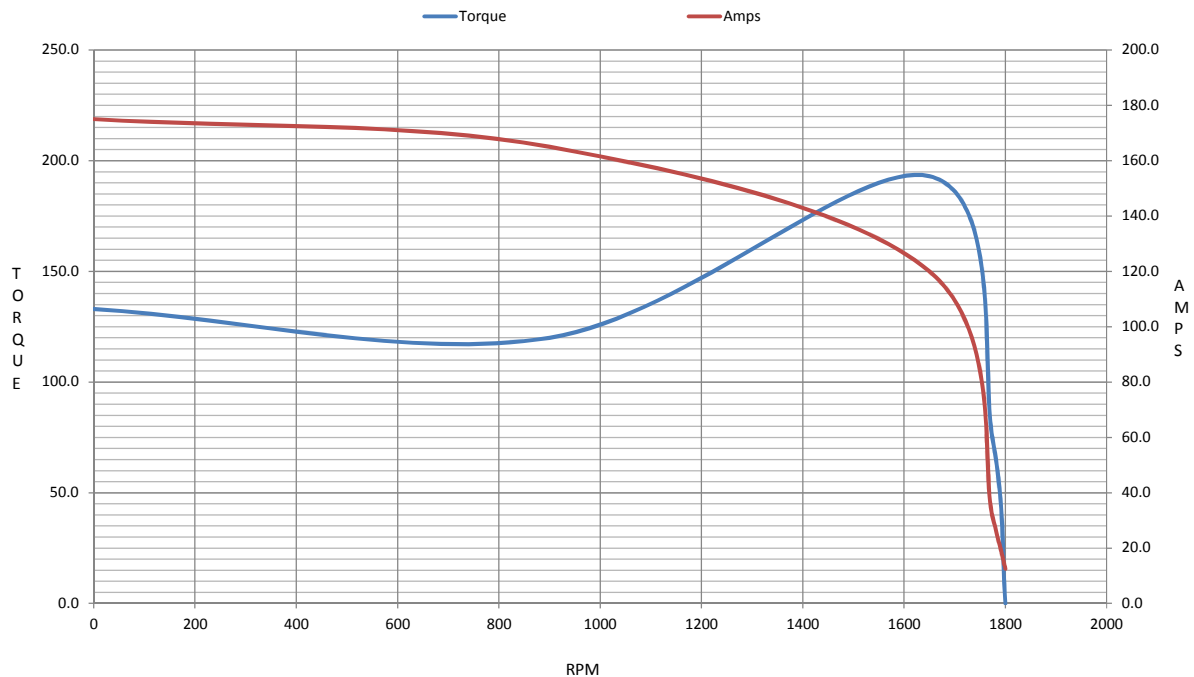
Motor Load Data

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																										
Speed (RPM)	0	900	1650	1775	1800																										
Current (Amps)	175	165	120	31.0	12.5																										
Torque (ft-lb)	133	120	193	73.8	0.00																										
— 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>18.5</td></tr><tr><td>75</td><td>93</td><td>78</td><td>25.5</td></tr><tr><td>100</td><td>94</td><td>82</td><td>31.0</td></tr><tr><td>125</td><td>94</td><td>83</td><td>35.5</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	89	45	12.5	50	92	65	18.5	75	93	78	25.5	100	94	82	31.0	125	94	83	35.5	Information Block	
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																						
						25	89	45	12.5																						
						50	92	65	18.5																						
						75	93	78	25.5																						
						100	94	82	31.0																						
						125	94	83	35.5																						
						HP		25.0																							
						Sync. RPM		1800																							
						Frame		284																							
						Enclosure		TEFC																							
						Construction		TFC																							
						Voltage		30/460#190/381 V																							
						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		B-SS620245																													
Conn. Diag		A-EE7308AA																													
Additional Specifications:																															
0																															
0																															
EQUIV CKT (OHMS / PHASE)																															
R1	R2	X1	X2	Xm																											
0.1750	0.1080	0.6380	1.1750	21.4140																											

Speed -Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 284TTFCA6026

(Model No. may contain prefix and/or suffix characters)

Catalog No : GT1028

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 02/03/2023

CE 23