

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTFCD6026

Catalog No: GT1031A

Globetrotter® General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 286T Frame, TEFC



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RegalRexnord

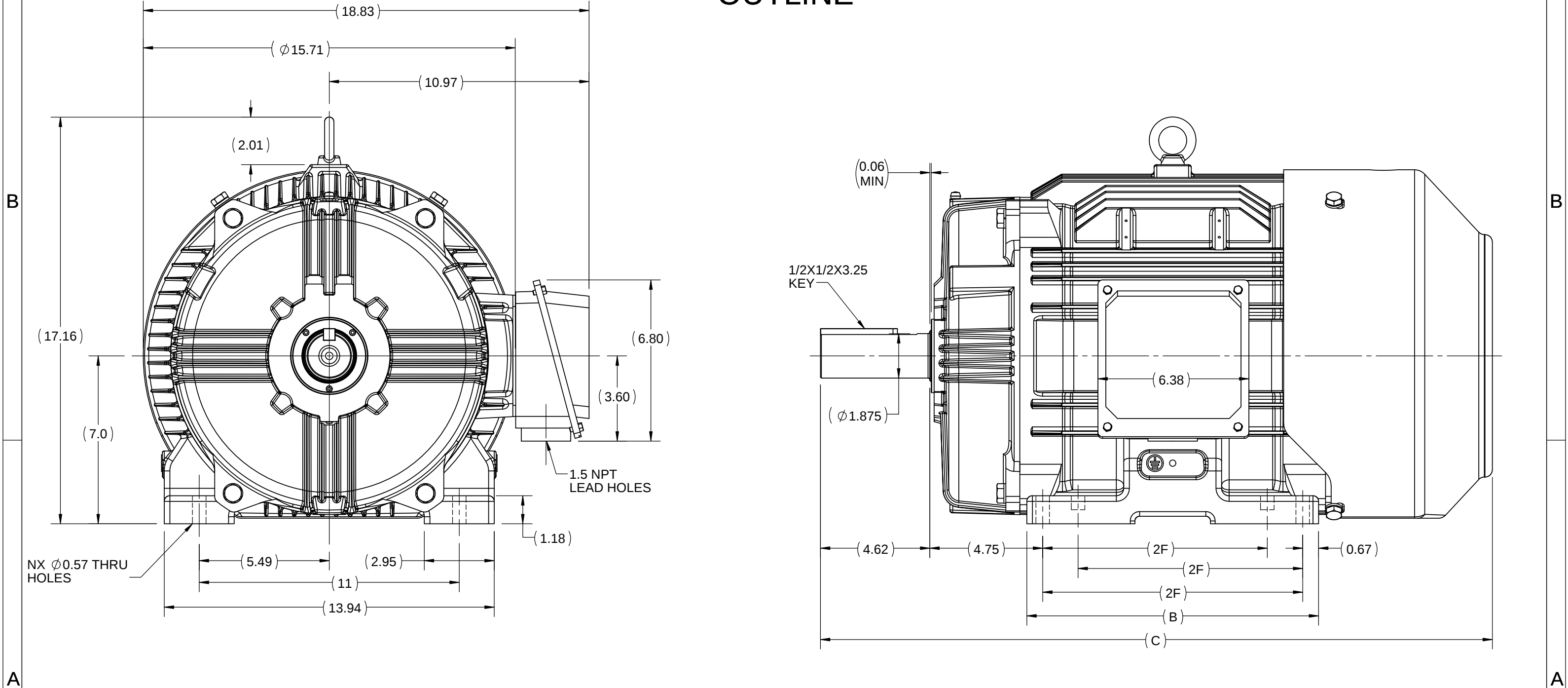
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 & 92.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	71/35.5 & 71/35.5 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Listed	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.27 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	28.14 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620704-200	Connection Drawing	EE7308AA

OUTLINE



286	12.32	28.14	11	8
284	10.82	26.65	9.5	4
FRAME	B	C	2F	N

DRAWING REVISION A	REVISION BY	DATE
ECO ECO-0116959	APPROVED BY	DATE
ECO DESCRIPTION		
NEW DRAWING RELEASE		
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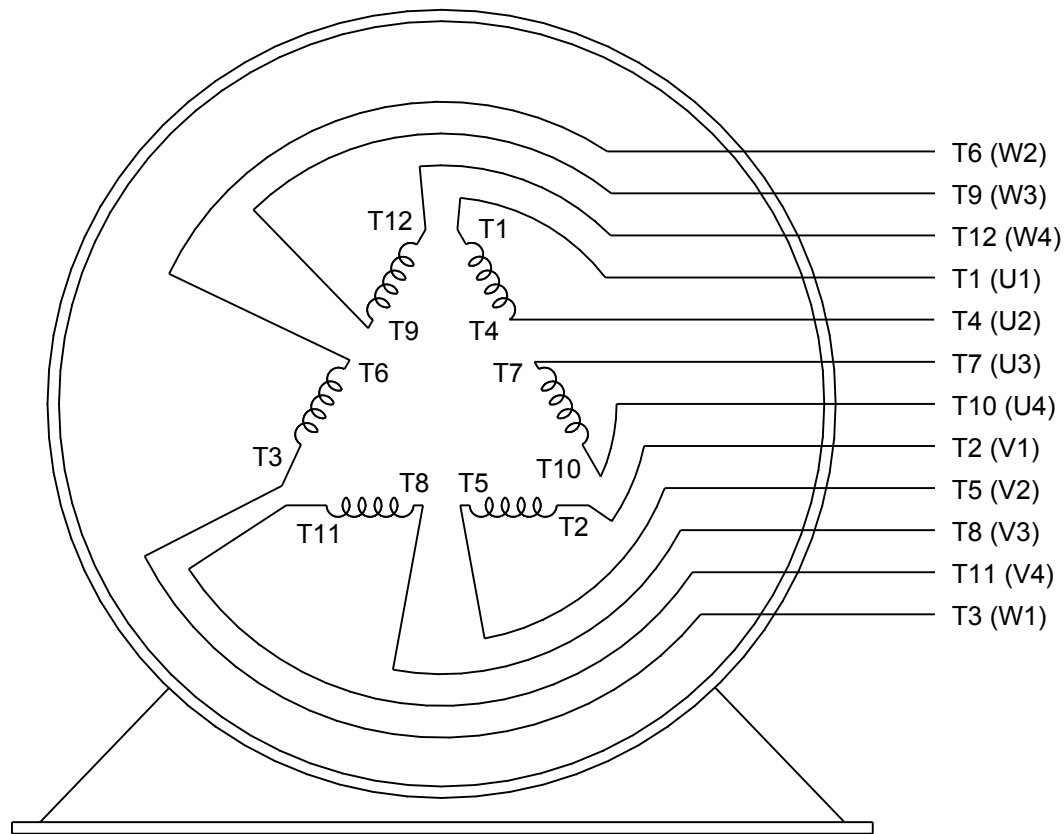
	DRAWN BY SN	 Regal Beloit America, Inc.		
	DATE 13/01/2017			
	APPROVED BY SBD	DESCRIPTION OUTLINE		
	DATE 13/01/2017	284/286T FR-TEFC-CAST IRON		
	REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER SS620704F	SHEET 1 OF 1



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	THIRD ANGLE PROJECTION
DATE 01-12-1994	
APPROVED BY GK	
DATE 01-14-1994	
REFERENCE	

 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

Uncontrolled Copy



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET**CUSTOMER:****CUSTOMER****PO#:****ORDER #:****MODEL #:** 286TTFC6026 BB**CONN. DIAGRAM:** A-EE7308AA**CUSTOMER PART****#:****OUTLINE:** SS620704-286**MOUNTING:** F1/F2 CAPABLE**WINDING #:** HE31804006 2**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1800	1775&1475	286T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	72.5/36.5&73/36.5	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:	93.6&93	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	83&84	3/4 LOAD PF:	78	1/2 LOAD PF:	67.5	93		SQ CAGE INV RATED

F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C
89	LB-FT	434 / 217		178	LB-FT 200 %	227	LB-FT 255 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	5.7 LB-FT^2	225 LB-FT^2	20 SEC.	2	492 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	DIVISION 2 T2B	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6311	6211						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER**TORQUE:** CONSTANT 10:1/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

PREPARED BY: Anusha Muthyala**DATE:** 09/24/2019 01:38:34 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 7/16/2020
 Customer: _____
 Attention: _____
 Submitted by: _____

286TTFCD6026

marathon
Motors

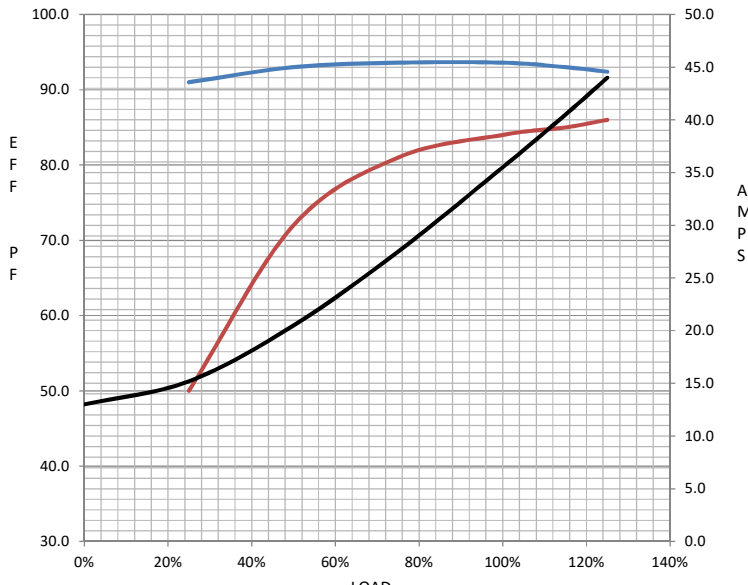
Submittal

Data @ 460 V

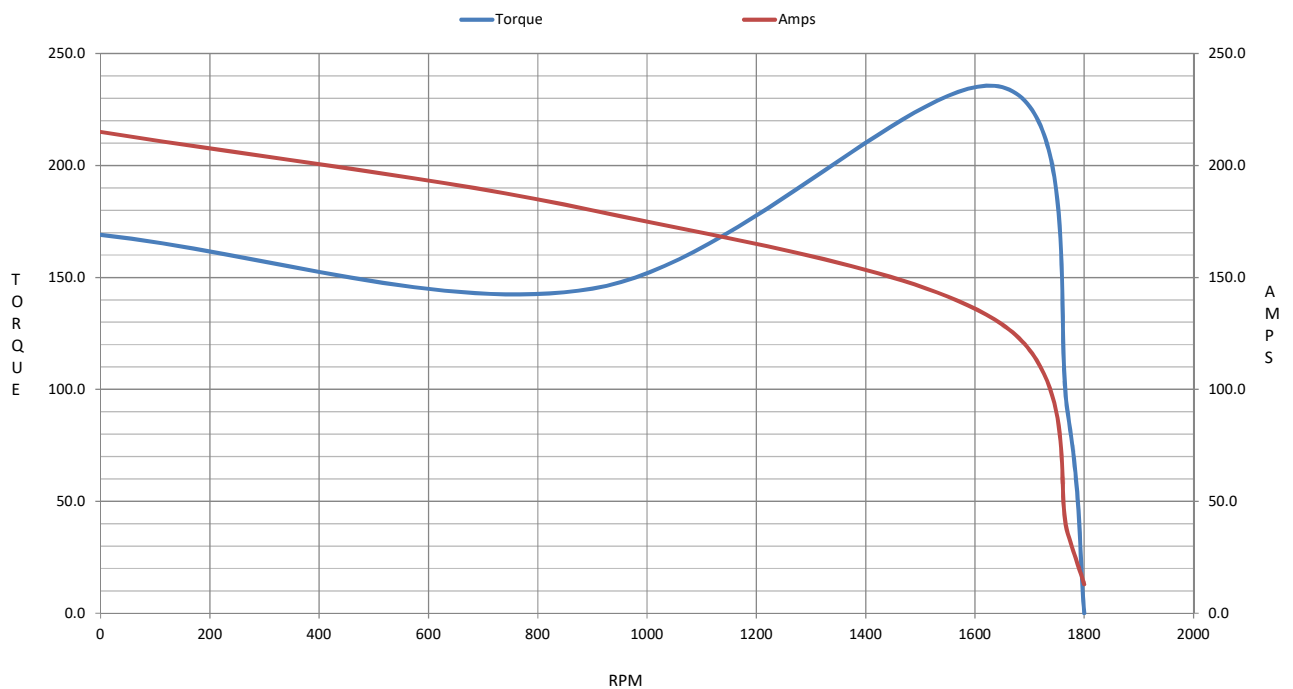
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	13.0	15.2	20.5	27.5	35.5	40.5	44.0	215	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	169	
RPM	1800	1792	1785	1780	1770	1,765	1762	0	
Efficiency (%)		91.0	93.0	93.6	93.6	93.0	92.4		
P.F. (%)	4.5	50.0	72.0	81.0	84.0	85.0	86.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																																												
Speed (RPM)	0	900	1650	1770	1800																																																												
Current (Amps)	215	180	129	35.5	13.0																																																												
Torque (ft-lb)	169	145	235	89.0	0.00																																																												
— Efficiency (%) — P.F. (%) — Current (Amps)  <table><tr><td colspan="2">Information Block</td></tr><tr><td>HP</td><td>30.0</td></tr><tr><td>Sync. RPM</td><td>1800</td></tr><tr><td>Frame</td><td>286</td></tr><tr><td>Enclosure</td><td>TEFC</td></tr><tr><td>Construction</td><td>TFC</td></tr><tr><td>Voltage</td><td>208-230/460#190/380 V</td></tr><tr><td>Frequency</td><td>60 Hz</td></tr><tr><td>Design</td><td>B</td></tr><tr><td>LR Code letter</td><td>G</td></tr><tr><td>Service Factor</td><td>1.15</td></tr><tr><td>Temp Rise @ FL</td><td>65 ° C</td></tr><tr><td>Duty</td><td>CONT</td></tr><tr><td>Ambient</td><td>40 ° C</td></tr><tr><td>Elevation</td><td>3,300 feet</td></tr><tr><td>Rotor/Shaft wk²</td><td>5.7 Lb-Ft²</td></tr><tr><td>Ref Wdg</td><td>HA31804013 NONE</td></tr><tr><td>Sound Pressure @ 1M</td><td>75 dBA</td></tr><tr><td>VFD Rating</td><td>CONSTANT 10:1/VARIABLE 10:1</td></tr><tr><td>Outline Dwg</td><td>037898-912</td></tr><tr><td>Conn. Diag</td><td>EE7308AA</td></tr><tr><td colspan="2">Additional Specifications:</td></tr><tr><td colspan="2">0</td></tr><tr><td colspan="2">0</td></tr><tr><td colspan="2">EQUIV CKT (OHMS / PHASE)</td></tr><tr><td>R1</td><td>R2</td><td>X1</td><td>X2</td><td>Xm</td></tr><tr><td>0.1750</td><td>0.1250</td><td>0.6710</td><td>0.9400</td><td>20.3180</td></tr></table>						Information Block		HP	30.0	Sync. RPM	1800	Frame	286	Enclosure	TEFC	Construction	TFC	Voltage	208-230/460#190/380 V	Frequency	60 Hz	Design	B	LR Code letter	G	Service Factor	1.15	Temp Rise @ FL	65 ° C	Duty	CONT	Ambient	40 ° C	Elevation	3,300 feet	Rotor/Shaft wk²	5.7 Lb-Ft²	Ref Wdg	HA31804013 NONE	Sound Pressure @ 1M	75 dBA	VFD Rating	CONSTANT 10:1/VARIABLE 10:1	Outline Dwg	037898-912	Conn. Diag	EE7308AA	Additional Specifications:		0		0		EQUIV CKT (OHMS / PHASE)		R1	R2	X1	X2	Xm	0.1750	0.1250	0.6710	0.9400	20.3180
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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 : 286TTFCD6026

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

Catalog No : GT1031A

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 09/01/2022

CE 22