

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTFCD6092

Catalog No: GT3226A

Globetrotter® Close-Coupled Pump Motor, 20 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 286JM Frame, TEFC



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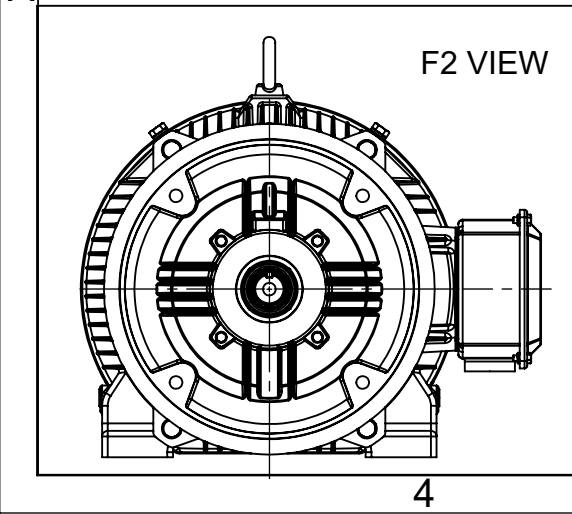
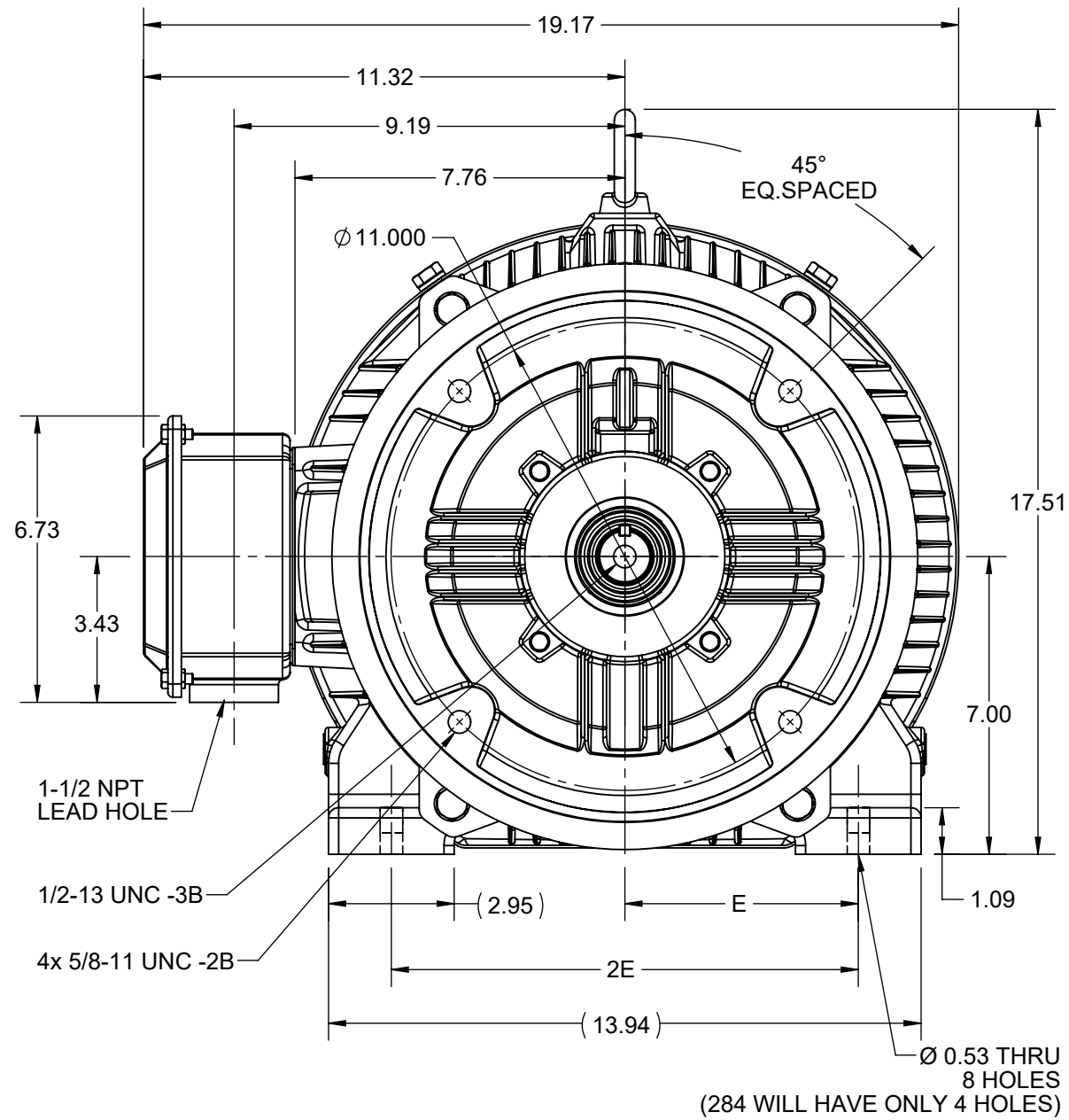
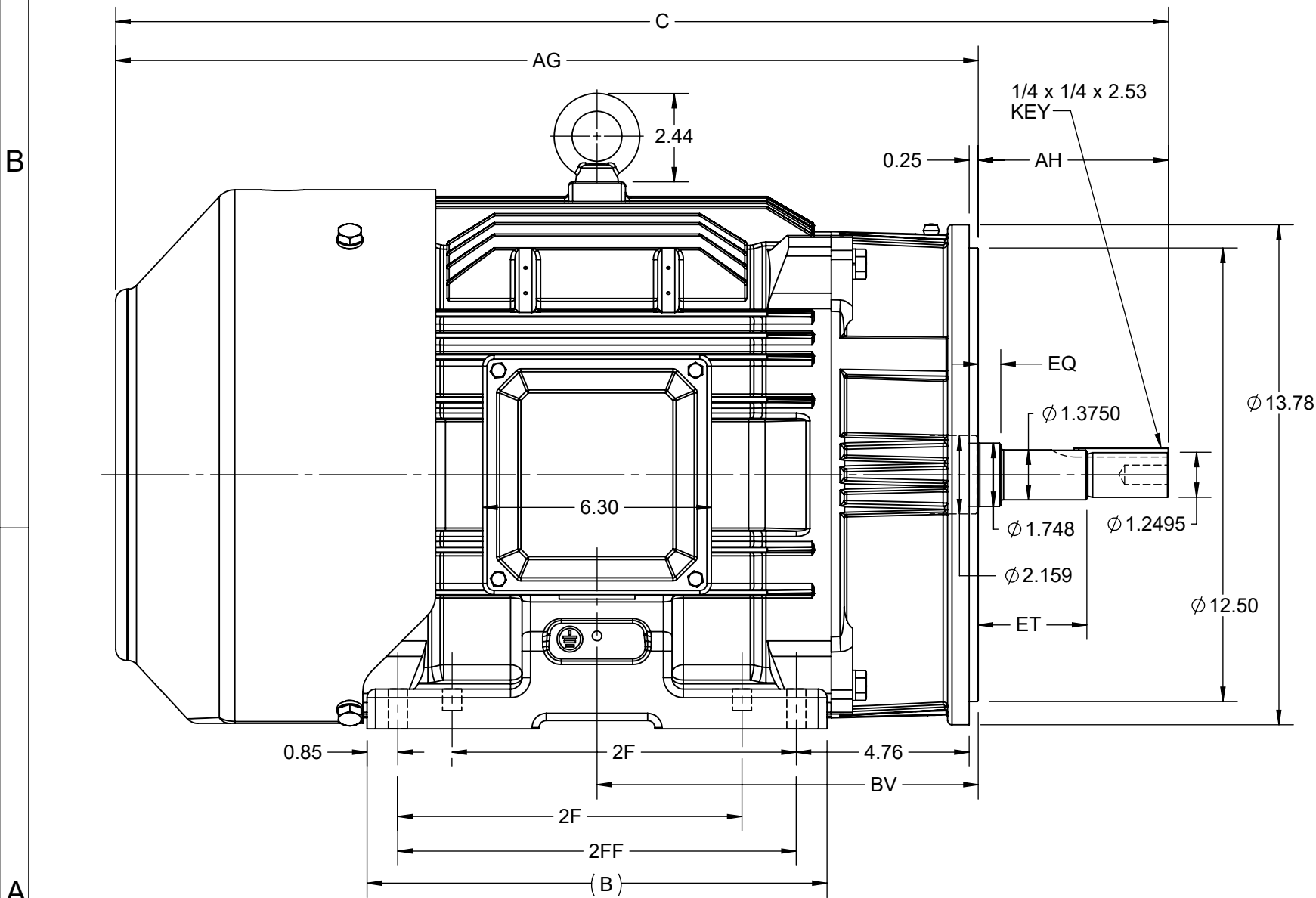
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	575 V
Current	20.8 A	Speed	1180 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Listed	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.5617 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JM	Overall Length	29.02 in
Frame Length	12.91 in	Shaft Diameter	1.260 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 10:1/VARIABLE 10:1		
Outline Drawing	SS620797-200	Connection Drawing	EE7300

4				3				2				1	
DASH NO.	B	C	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	10.83	27.52	5.50	11.00	---	9.50	22.27	5.25	9.76	0.62	2.99	F1 OR F2	284JM
200	12.68	29.02			9.50	11.00	23.77		10.50				284/286JM



DRAWING REVISION D	REVISION BY VS	REV DATE/© DATE 20-01-2021
ECO CR-0000688	APPROVED BY GNK	DATE 20-01-2021
DRAWING UPDATED		
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PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY SN	Regal Beloit America, Inc.	
	DATE 12/04/2017		
	APPROVED BY SBD	DESCRIPTION OUTLINE	
	DATE 12/04/2017	284/286 JM FR NEMA TEFC-CAST IRON	
THIRD ANGLE PROJECTION	REFERENCE	MATERIAL	PROCESS/FINISH
	SIZE B	DRAWING NUMBER SS620797	SHEET 1 OF 1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1) T1(U1) T1(U1) → L1

T2(V1) T2(V1) T2(V1) → L2

T3(W1) T3(W1) T3(W1) → L3

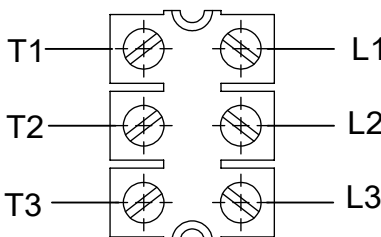
IF MOTOR HAS 6 LEADS

T1(U1) T1(U1) → L1



T2(V1) T2(V1) → L2

T3(W1) T3(W1) → L3

A-9806 DECAL



OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY DA	<div></div> <div>Regal Beloit America, Inc.</div>		
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022		DATE 03-26-1993			
REQUEST NUMBER DESCRIPTION DRAWING UPDATED				APPROVED BY TB	DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR		
				DATE 03-26-1993			
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			THIRD ANGLE PROJECTION 	SIZE A	DRAWING NUMBER EE7300		SHEET 1 OF 1



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

CERTIFICATION DATA SHEET**CUSTOMER:****CUSTOMER****ORDER #:****PO#:****CONN. DIAGRAM:** EE7300**MODEL #:** 286TTFCD6092 AA**OUTLINE:** SS620797**CUSTOMER PART****WINDING #:** HE31806005 3**#:****MOUNTING:** F1/F2 CAPABLE**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20	14.9	1200	1180	286JMV	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	20.8	LINE OR INVERTER	CONTINUOUS	F7	1.15	40

FULL LOAD EFF:	91.7	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	79	3/4 LOAD PF:	73	1/2 LOAD PF:	61	91		SQ CAGE INV RATED

F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C
89	LB-FT	116		152	LB-FT 171 %	199	LB-FT 224 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	0 LB-FT^2	- LB-FT^2	20 SEC.	2	0 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL OR SHAFT DOWN	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	JM	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 20:1**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

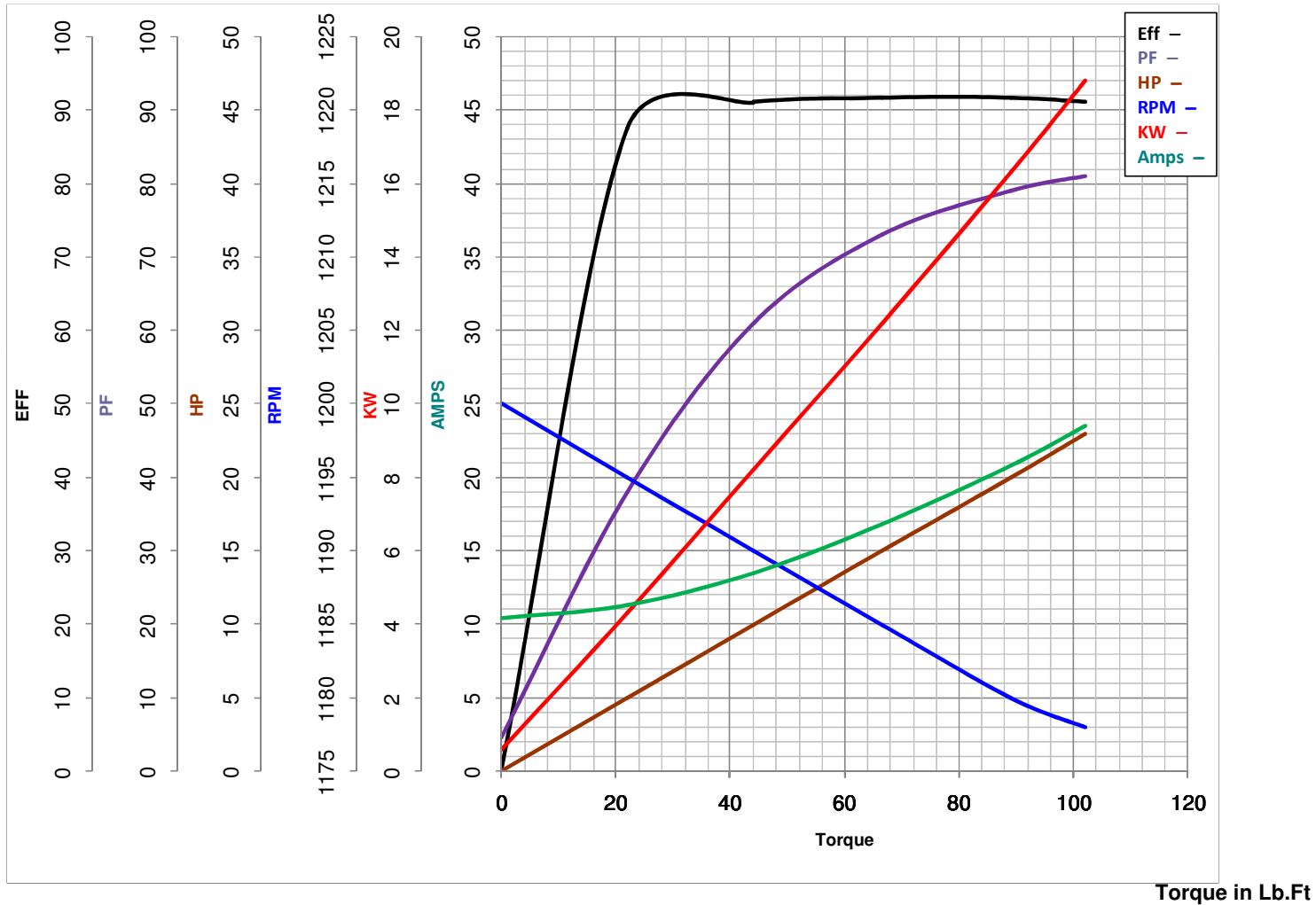
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FORM 3531 REV.3 02/07/99

** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer**Curve at**575**Volts****HP** 20.00**PHASE** 3**Model No** 286TTFCD609260**HZ**20**HP****VOLTS** 575**Catalog No** GT3226A**HZ** 60**RPM** 1180**FL TORQUE** 89 **Lb.Ft****BD TORQUE** 199.0 **Lb.Ft****LR TORQUE** 152 **Lb.Ft****FL AMPS** 20.8**PU TORQUE** 128.0 **Lb.Ft****LR AMPS** 116**WINDING** HE31806005-3**Prepared By**

ANUSHA M

Date

5/4/2018

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 : 286TTFCD6092

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

Catalog No : GT3226A

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