

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 286TSTFCD6005  
Catalog No: GT1130A  
30,3600,TEFC,286TS,3/60/575  
Totally Enclosed Fan Cooled (TEFC)



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**REGAL**<sup>®</sup>



### Nameplate Specifications

Output HP	<b>30 Hp</b>	Output KW	<b>22.4 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>28.5 A</b>	Speed	<b>3550 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>286TS</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6311</b>
Opp Drive End Bearing Size	<b>6211</b>	UL	<b>Listed</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>55</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>TS</b>
Frame Length	<b>12.91 in</b>	Shaft Diameter	<b>1.625 in</b>
Shaft Extension	<b>3.25 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS620698</b>	Connection Diagram	<b>EE7300</b>

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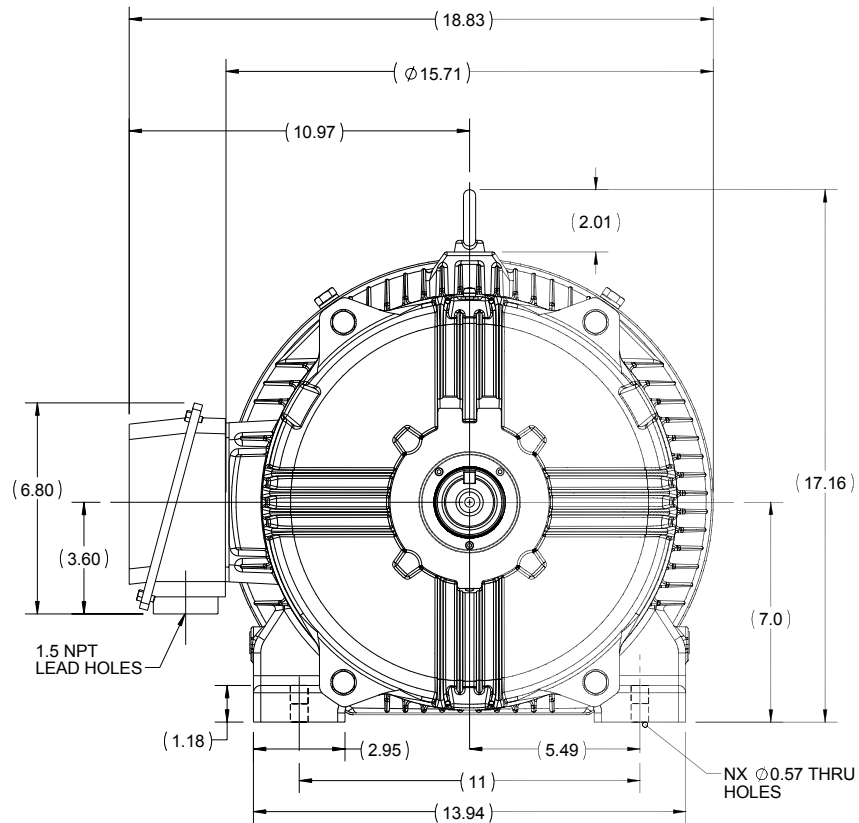
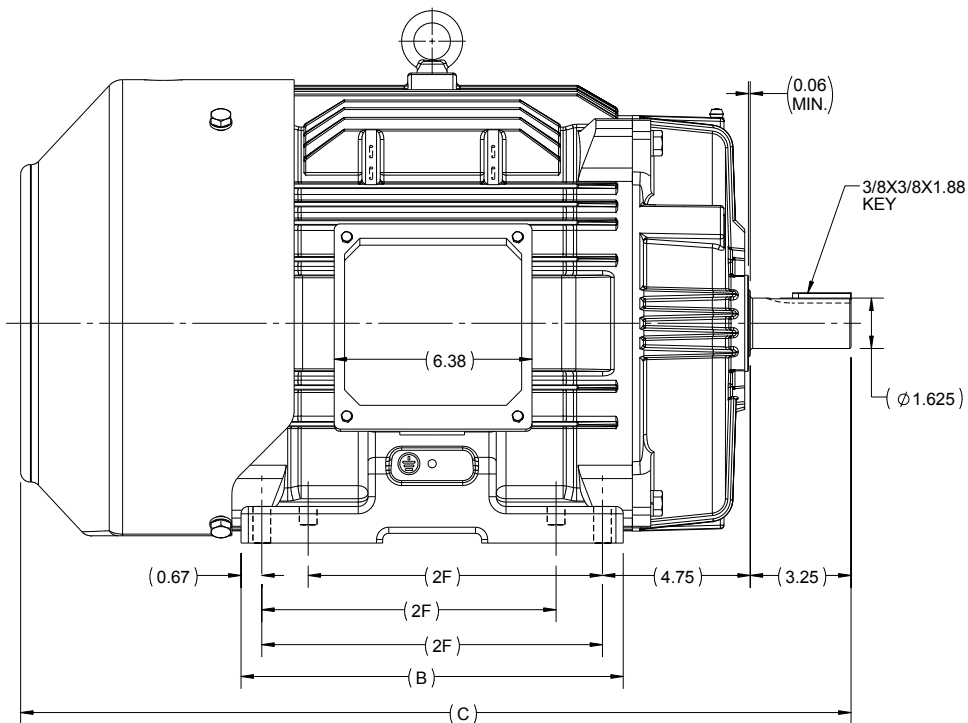
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# OUTLINE

B

B



A

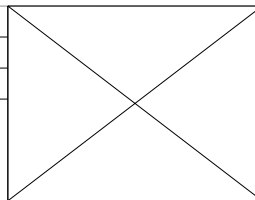
A

286	12.32	26.77	11	8
284	10.82	25.28	9.5	4
FRAME	B	C	2F	N

4


DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION <b>NEW DRAWING RELEASE</b>		
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DRAWN BY SMAR
DATE 07/07/2015
APPROVED BY SBD
DATE 07/07/2015
REFERENCE
THIRD ANGLE PROJECTION

 <b>REGAL-BELOIT CORPORATION</b>	
DESCRIPTION <b>OUTLINE</b> 284/286TS FR-TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620698
SHEET 1 OF 1	

1

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

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**





A-9806 DECAL

**OPTIONAL CORD  
CONNECTION**

- L1 WHITE
- L2 RED
- L3 BLACK

DRAWING REVISION <b>AB</b>	REVISION BY <b>JJB</b>	DATE <b>06-27-2017</b>
ECO <b>ECO-0125361</b>	APPROVED BY <b>TB</b>	DATE <b>06-27-2017</b>
ECO DESCRIPTION <b>UPDATED TO CURRENT STANDARDS</b>		
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DRAWN BY <b>DA</b>	 <b>Regal Beloit America, Inc.</b>
DATE <b>03-26-1993</b>	
APPROVED BY <b>TB</b>	DESCRIPTION <b>CONNECTION DIAGRAM</b>
DATE <b>03-26-1993</b>	<b>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR</b>
REFERENCE	MATERIAL
PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE <b>A</b>
DRAWING NUMBER <b>EE7300</b>	SHEET <b>1 OF 1</b>



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:** CUSTOMER PO #:  
**ORDER #:** MODEL #: 286TSTFCD6005 AA  
**CONN. DIAGRAM:** EE7300 CUSTOMER PART #:  
**OUTLINE:** SS620698 MOUNTING: F1/F2 CAPABLE  
**WINDING #:** HE31802003 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
30	22.4	3600	3550	286TS	TEFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	28.5	LINE OR INVERTER	CONTINUOUS	F7	1.15	40

<b>FULL LOAD EFF:</b>	91.7	<b>3/4 LOAD EFF:</b>	91.7	<b>1/2 LOAD EFF:</b>	91.4	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	86.5	<b>3/4 LOAD PF:</b>	83.5	<b>1/2 LOAD PF:</b>	75.5	91		SQ CAGE INV RATED
<b>F.L. TORQUE</b>	<b>LOCKED ROTOR AMPS</b>	<b>L.R. TORQUE</b>	<b>B.D. TORQUE</b>	<b>F.L. RISE°C</b>				
44.4 LB-FT	168	77 LB-FT	173 %	107 LB-FT	241 %			65

<b>SOUND PRESSURE @ 3 FT.</b>	<b>SOUND POWER</b>	<b>ROTOR WK^2</b>	<b>MAX. WK^2</b>	<b>SAFE STALL TIME</b>	<b>STARTS / HOUR</b>	<b>APPROX. MOTOR WGT</b>
72 DBA	82 DBA	3.3 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	DIVISION 2 T2B	FALSE	NONE	BLUE (ENAMEL)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL	
DE BALL	ODE BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON	
6311	6211							

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

<b>INVERTER</b>	TORQUE: CONSTANT 10:1/VARIABLE 20:1
<b>INV. HP SPEED RANGE:</b>	NONE
<b>ENCODER:</b>	NONE
<b>O</b>	NONE
<b>T</b>	NONE
<b>E</b>	PPR
<b>S</b>	NONE
<b>BRAKE:</b>	NONE
<b>P/N</b>	NONE
<b>FT-LB</b>	NONE
<b>V</b>	NONE
<b>Hz</b>	

**PREPARED BY:** Fareeda Dudekula  
**DATE:** 05/04/2018 09:27:29 AM  
**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 30.00

PHASE 3

Model No 286TSTFCD6005

60

HZ

VOLTS 575

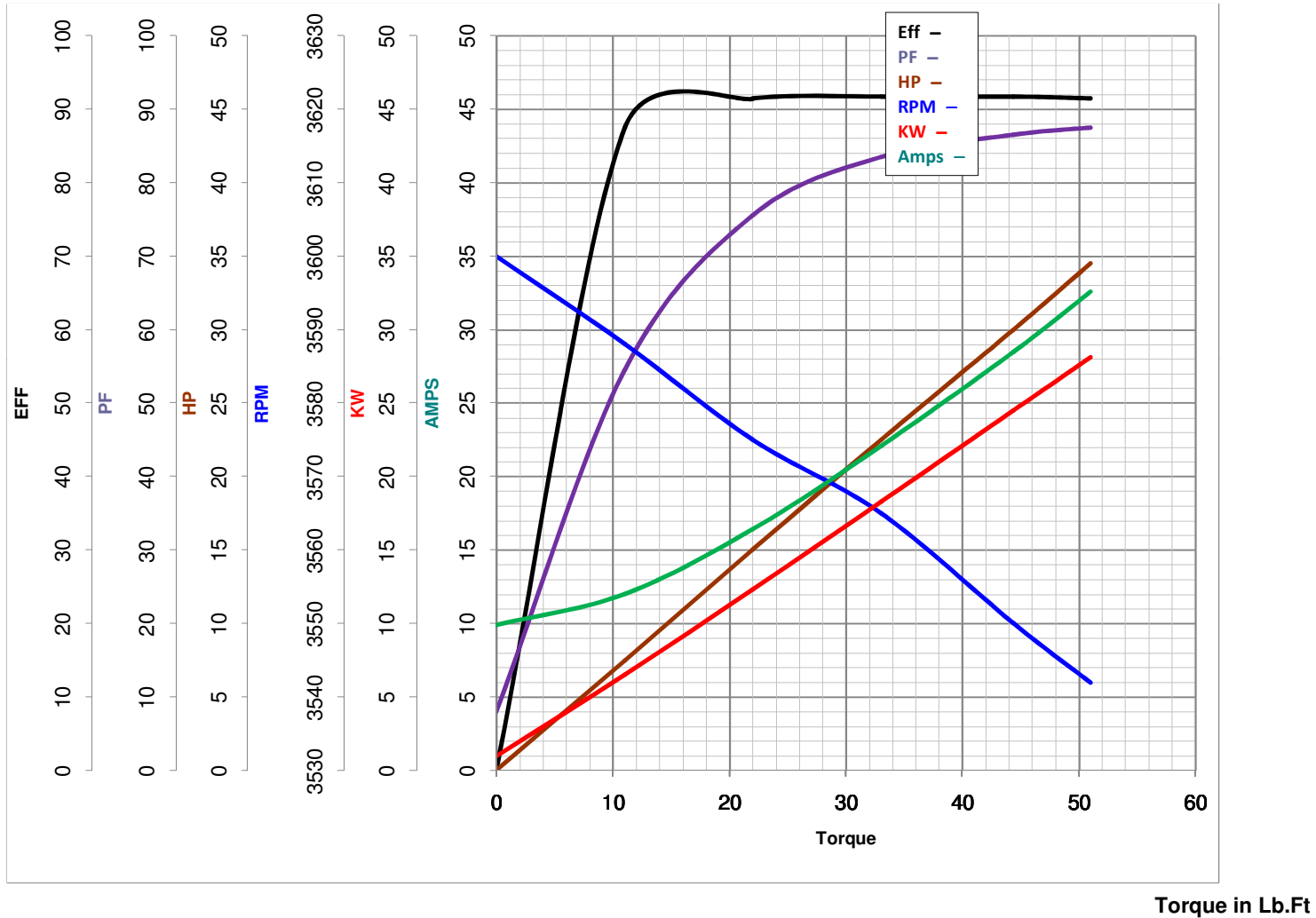
Catalog No GT1130A

30

HP

HZ 60

RPM 3550



FL TORQUE 44.4 Lb.Ft  
 BD TORQUE 107.0 Lb.Ft  
 LR TORQUE 77 Lb.Ft

FL AMPS 28.5  
 PU TORQUE 65.0 Lb.Ft  
 LR AMPS 168

WINDING HE31802003-3 Prepared By FAREEDA

Date 5/4/2018