

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 254TTFCD6005  
Catalog No: GT1121A  
15,3600,TEFC,254T,3/60/575  
Totally Enclosed Fan Cooled (TEFC)



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**REGAL**<sup>®</sup>



### Nameplate Specifications

Output HP	<b>15 Hp</b>	Output KW	<b>11.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>14.3 A</b>	Speed	<b>3545 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>254T</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6309</b>
Opp Drive End Bearing Size	<b>6209</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>T</b>
Frame Length	<b>10.00 in</b>	Shaft Diameter	<b>1.626 in</b>
Shaft Extension	<b>4 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS620703</b>	Connection Diagram	<b>EE7300</b>

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3

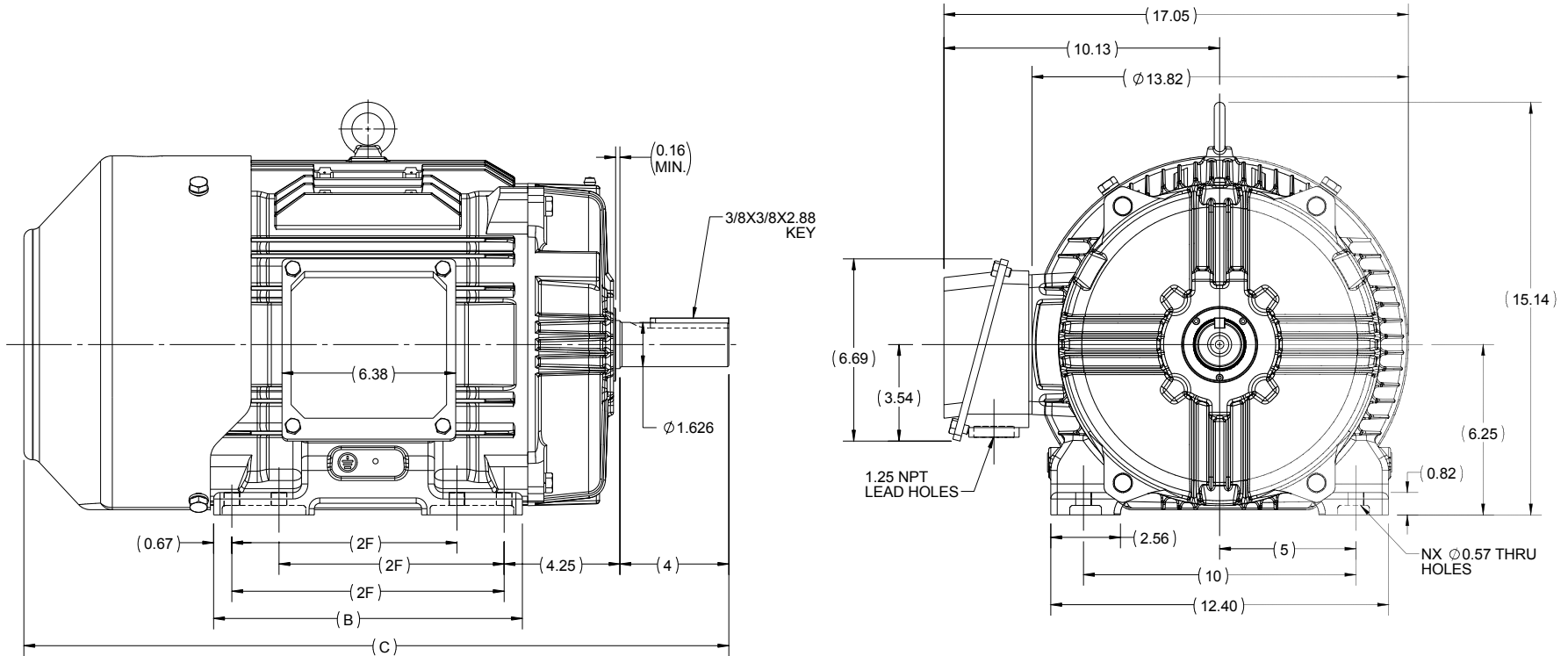
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1

# OUTLINE

B

B

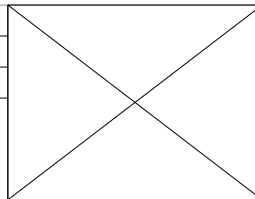


A


A

256T	11.34	25.89	10	8
254T	9.60	24.15	8.25	4
FRAME	B	C	2F	N

DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO SBD	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION <b>NEW DRAWING RELEASE</b>		
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DRAWN BY MR
DATE 4/5/2015
APPROVED BY KRK
DATE 4/5/2015
REFERENCE
THIRD ANGLE PROJECTION

 <b>REGAL-BELOIT CORPORATION</b>	
DESCRIPTION <h2>OUTLINE</h2> 254/256T FR-TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620703
	SHEET 1 OF 1

4

3

2

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 AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION <b>UPDATED TO CURRENT STANDARDS</b>		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.		
		DESCRIPTION <b>CONNECTION DIAGRAM</b> EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>	SHEET 1 OF 1



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:** CUSTOMER PO #:  
**ORDER #:** MODEL #: 254TTFCDD6005 AA  
**CONN. DIAGRAM:** EE7300 CUSTOMER PART #:  
**OUTLINE:** SS620703 MOUNTING: F1/F2 CAPABLE  
**WINDING #:** HE31602008 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
15	11.2	3600	3545	254T	TEFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	14.3	LINE OR INVERTER	CONTINUOUS	F7	1.15	40

<b>FULL LOAD EFF:</b>	91	<b>3/4 LOAD EFF:</b>	91	<b>1/2 LOAD EFF:</b>	90.6	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	87	<b>3/4 LOAD PF:</b>	83.5	<b>1/2 LOAD PF:</b>	75		90.2	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>				
22.2 LB-FT	91.2	37 LB-FT	167 %	60 LB-FT	270 %			55

<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	1.2 LB-FT^2	22 LB-FT^2	20 SEC.	2	375 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	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON	
6309	6209							

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

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

**PREPARED BY:** Anusha Muthyala  
**DATE:** 05/04/2018 03:19:00 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 15.00

PHASE 3

Model No 254TTFC6005

60

HZ

VOLTS 575

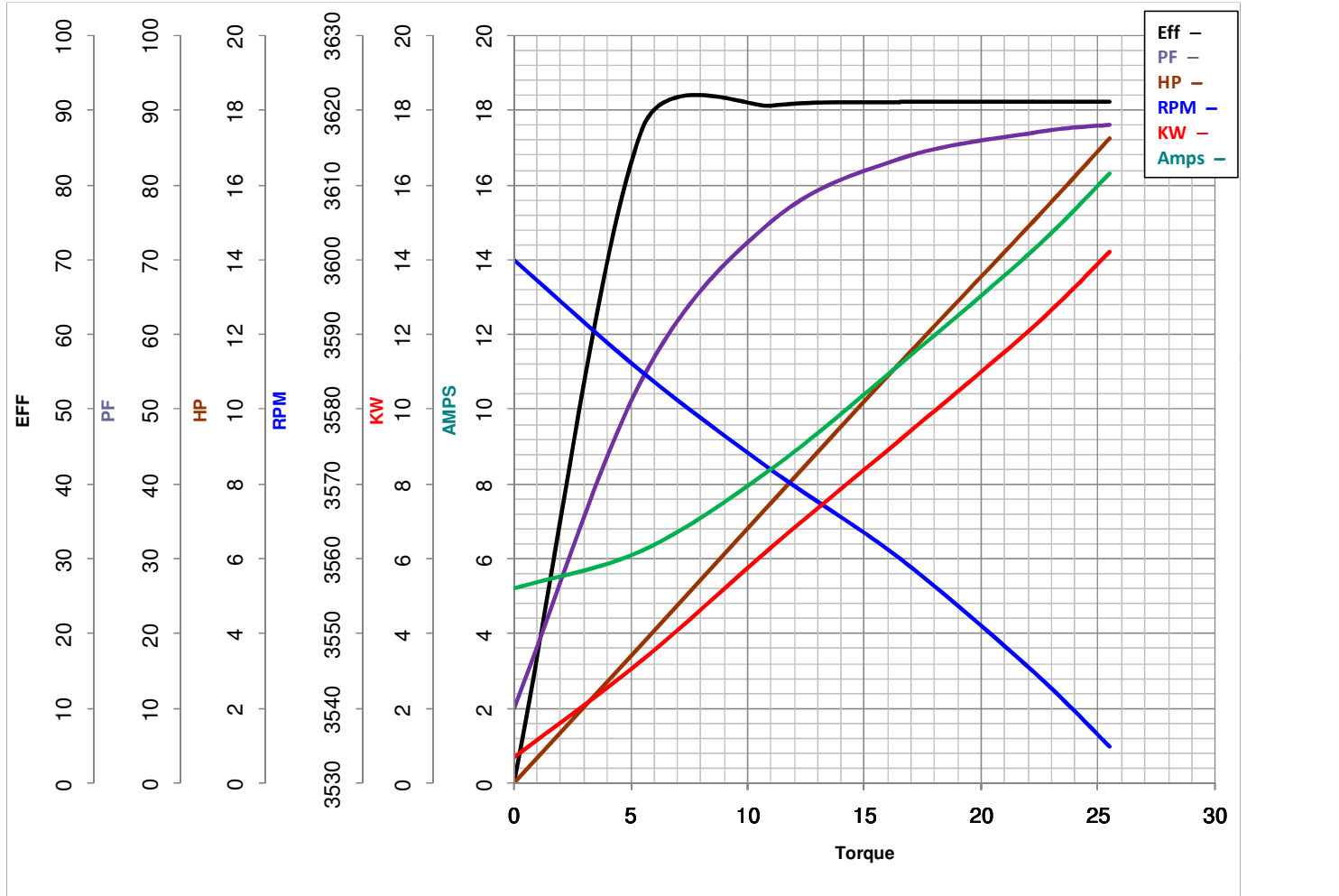
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HP

Catalog No GT1121A

HZ 60

RPM 3545



Torque in Lb.Ft

FL TORQUE 22.2 Lb.Ft  
 BD TORQUE 60.0 Lb.Ft  
 LR TORQUE 37 Lb.Ft

FL AMPS 14.3  
 PU TORQUE 31.5 Lb.Ft  
 LR AMPS 91.2

WINDING HE31602008-3

Prepared By

ANUSHA M

Date

5/4/2018