

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 324TTFCD6007  
Catalog No: GT3133A  
40,3600,TEFC,324JM,3/60/230/460  
JM



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**REGAL**<sup>®</sup>



### Nameplate Specifications

Output HP	<b>40 Hp</b>	Output KW	<b>30.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>92.5/46.0 A</b>	Speed	<b>3565 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>92.4 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>324JMV</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6312</b>
Opp Drive End Bearing Size	<b>6212</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>Wye Start Delta Run Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal Or Shaft Down</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>JM</b>
Frame Length	<b>13.07 in</b>	Shaft Diameter	<b>1.296 in</b>
Shaft Extension	<b>8.1 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS620799</b>	Connection Diagram	<b>EE7308AA</b>

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### LOW VOLTAGE



### HIGH VOLTAGE



DRAWING REVISION <b>K</b>	REVISION BY <b>AJW</b>	DATE <b>07-17-2015</b>
ECO <b>ECO-0081632</b>	APPROVED BY <b>T. VUE</b>	DATE <b>07-17-2015</b>
ECO DESCRIPTION <b>REV'D IEC MARKINGS PER IEC 60034-8</b>		
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DRAWN BY <b>LZ</b>	<b>Regal Beloit America, Inc.</b>	
DATE <b>01-12-1994</b>		
APPROVED BY <b>GK</b>	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b> <b>3Ø-2/1 DELTA-12 LEADS</b>	
DATE <b>01-14-1994</b>		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>EE7308AA</b>
		SHEET <b>1 OF 1</b>



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:**  
**ORDER #:**  
**CONN. DIAGRAM:** EE7308AA  
**OUTLINE:** SS620799  
**WINDING #:** HE32002008 2  
**CUSTOMER:**  
**PO #:**  
**MODEL #:** 324TTFC6007 AA  
**CUSTOMER PART #:**  
**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
40830	30.08&22.4	3600	3565&2968	324JMV	TEFC	G	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	92.5/46&84/42	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.0	40

<b>FULL LOAD EFF:</b>	92.4&92.4	<b>3/4 LOAD EFF:</b>	93	<b>1/2 LOAD EFF:</b>	91.7	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	87.5&87.5	<b>3/4 LOAD PF:</b>	85	<b>1/2 LOAD PF:</b>	77.5	91.7		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>
59 LB-FT	580 / 290	95 LB-FT	160 %	162 LB-FT 275 %

<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>
75 DBA	85 DBA	4.8 LB-FT^2	25 LB-FT^2	20 SEC.	2	650 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	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
6312	6212						

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

**INVERTER**

**TORQUE:** CONSTANT 4:1/VARIABLE 20:1  
**INV. HP SPEED RANGE:** NONE

<b>ENCODER:</b>	NONE
NONE	NONE
NONE	PPR

<b>BRAKE:</b>	NONE	NONE
NONE	P/N	NONE
NONE	NONE	NONE
NONE	FT-LB	NONE V NONE HZ

**S**  
**E**  
**T**  
**O**  
**N**

\*

**PREPARED BY:** Anusha Muthyala  
**DATE:** 05/29/2018 07:18:31 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

460

Volts

HP 40&30

PHASE 3

Model No 324TTFC6007

60

HZ

VOLTS 230/460&190/380

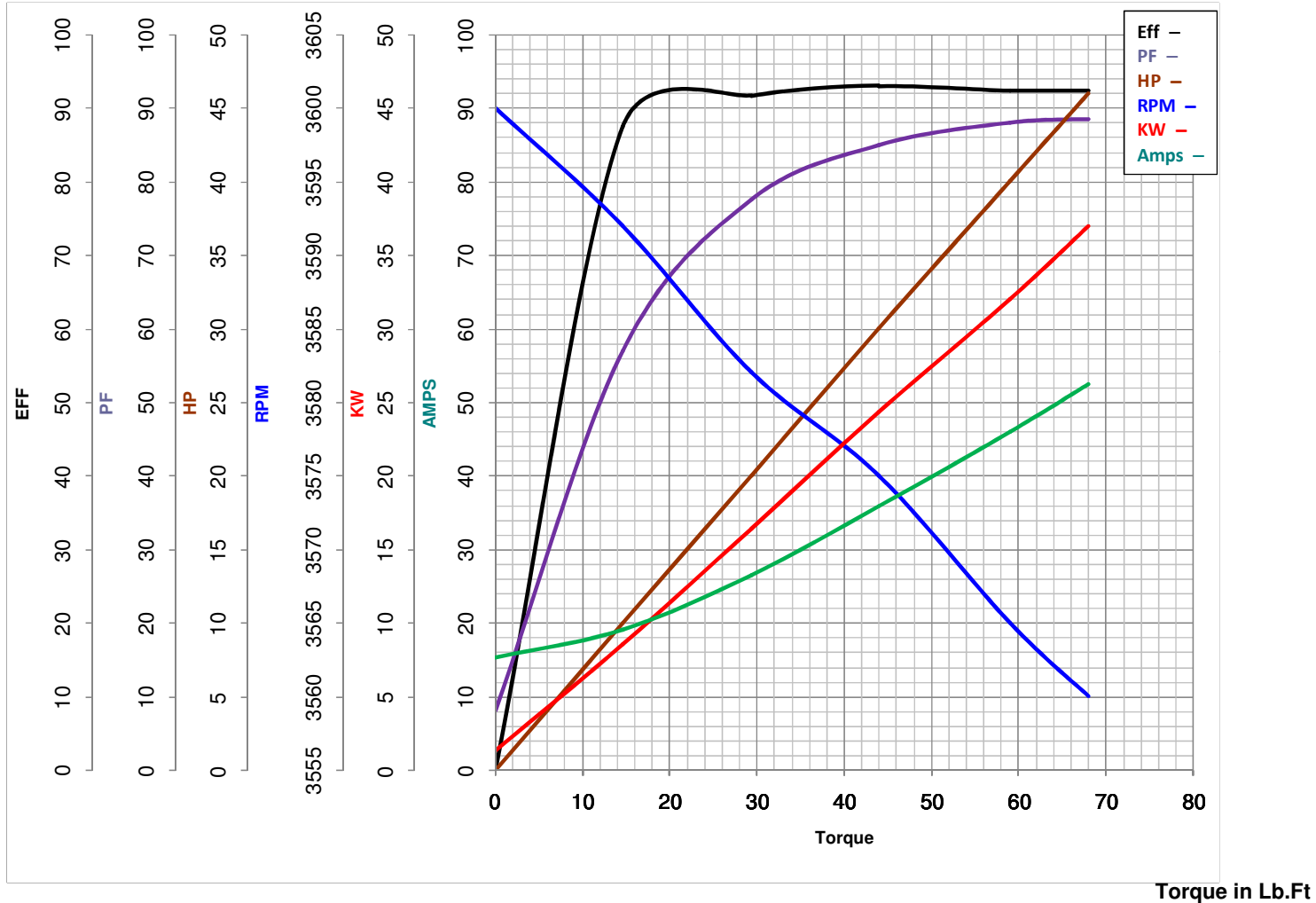
40

HP

Catalog No GT3133A

HZ 60&50

RPM 3565&2968



<b>FL TORQUE</b>	<u>59</u>	Lb.Ft	<b>FL AMPS</b>	<u>92.5/46</u>	
<b>BD TORQUE</b>	<u>162.0</u>	Lb.Ft	<b>PU TORQUE</b>	<u>80.0</u>	Lb.Ft
<b>LR TORQUE</b>	<u>95</u>	Lb.Ft	<b>LR AMPS</b>	<u>290</u>	
<b>WINDING</b>	HE32002008-2		<b>Date</b>	5/29/2018	