

# PRODUCT INFORMATION PACKET

Model No: 324TTFCD6031  
Catalog No: GT3134A  
40,1800,TEFC,324JM,3/60/230/460  
JM



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### 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>95.0/47.5 A</b>	Speed	<b>1782 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>94.1 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>324JM</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>4</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>JM</b>
Frame Length	<b>13.07 in</b>	Shaft Diameter	<b>1.375 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>	
DATE <b>01-14-1994</b>	<b>3Ø-2/1 DELTA-12 LEADS</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:**  
**OUTLINE:**  
**WINDING #:**

**CUSTOMER PO #:**  
**MODEL #:**  
**CUSTOMER PART #:**  
**MOUNTING:**

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
40830	30.0&22.4	1800	1782&1485	324JM	TEFC	G	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	95/47.5&86/43	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.0	40

<b>FULL LOAD EFF:</b>	94.1&93.9	<b>3/4 LOAD EFF:</b>	94.1	<b>1/2 LOAD EFF:</b>	93.6	<b>GTD. EFF</b>	93.6	<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	84&84	<b>3/4 LOAD PF:</b>	81	<b>1/2 LOAD PF:</b>	72.5	<b>SQ CAGE INV RATED</b>		

<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>
118 LB-FT	580 / 290	212 LB-FT 180 %	313 LB-FT 265 %	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>
60 DBA	70 DBA	11.2 LB-FT^2	- 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	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			SPACE HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDS	BRG RTDS	NONE	FALSE	NONE	NONE	VOLTS
NONE	NOT	NONE	NONE					

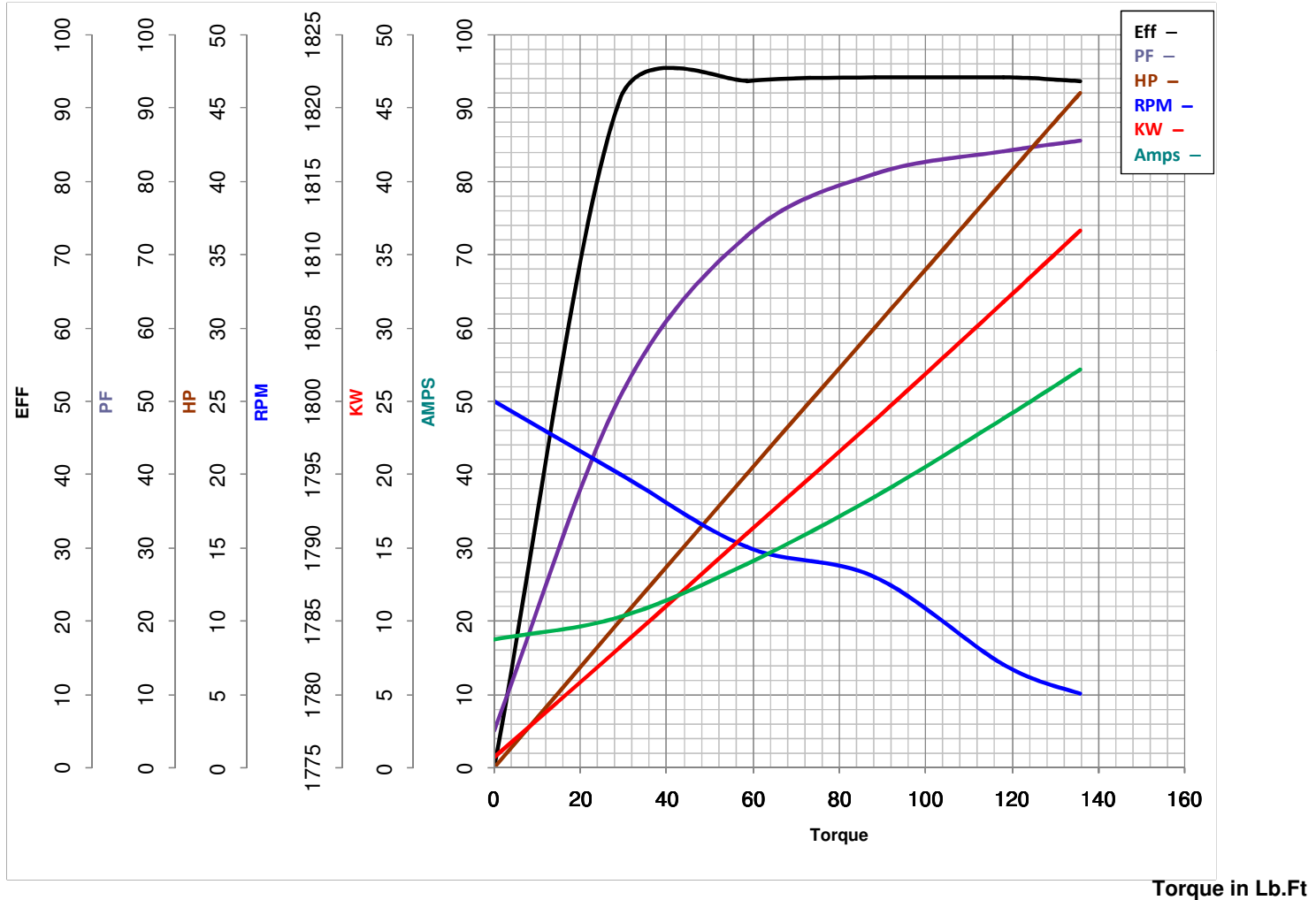
<b>* INVERTER</b>	<b>TORQUE:</b> CONSTANT 10:1/VARIABLE 20:1	
<b>N INV. HP SPEED RANGE:</b>	NONE	
<b>O ENCODER:</b>	NONE	
<b>T NONE</b>	NONE	PPR
<b>E NONE</b>	NONE	P/N NONE
<b>S NONE</b>	FT-LB	NONE V NONE Hz
<b>* NONE</b>		

**PREPARED BY:** Anusha Muthyala  
**DATE:** 05/29/2018 07:19:05 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 324TTFC6031 60 HZ  
40 HP VOLTS 230/460&190/380  
 Catalog No GT3134A HZ 60&50 RPM 1782&1485



FL TORQUE 118 Lb.Ft  
 BD TORQUE 313.0 Lb.Ft  
 LR TORQUE 212 Lb.Ft

FL AMPS 95/47.5  
 PU TORQUE 180.0 Lb.Ft  
 LR AMPS 290

WINDING HE32004007-2

Date 5/29/2018