

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 254TTFCD6078  
Catalog No: GT1217A  
7 1/2, 1200, TEFC, 254TC, 3/60/230/460  
Totally Enclosed Fan Cooled (TEFC)



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**REGAL**<sup>®</sup>

### Nameplate Specifications

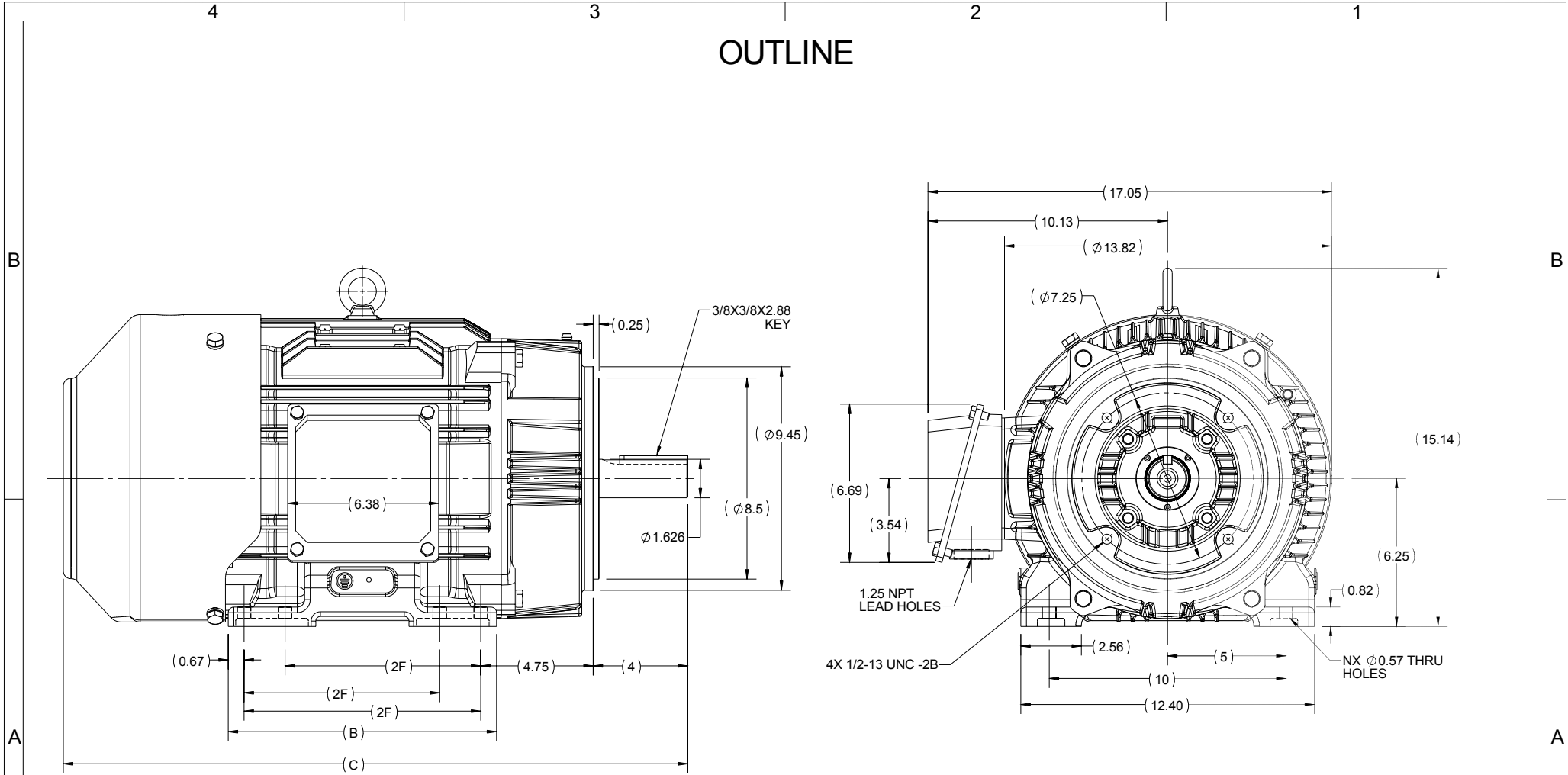
Output HP	<b>7.50 Hp</b>	Output KW	<b>5.6 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>19.8/9.9 A</b>	Speed	<b>1182 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>H</b>	Frame	<b>254TC</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>6</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>SS620700</b>	Connection Diagram	<b>EE7308K</b>

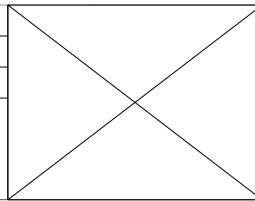
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# OUTLINE




256TC	11.34	26.39	10	8
254TC	9.60	24.65	8.25	4
FRAME	B	C	2F	N

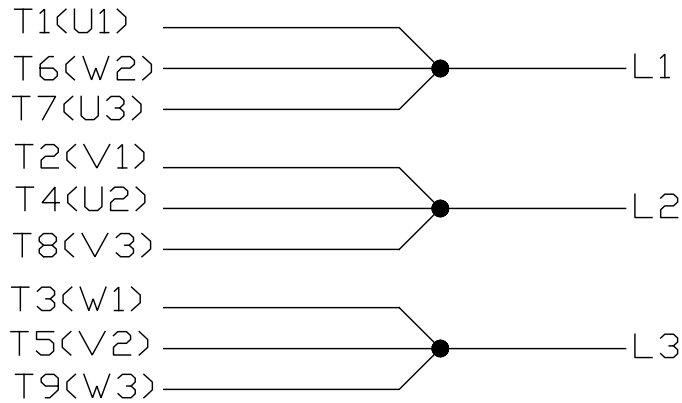
DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION NEW DRAWING RELEASE		
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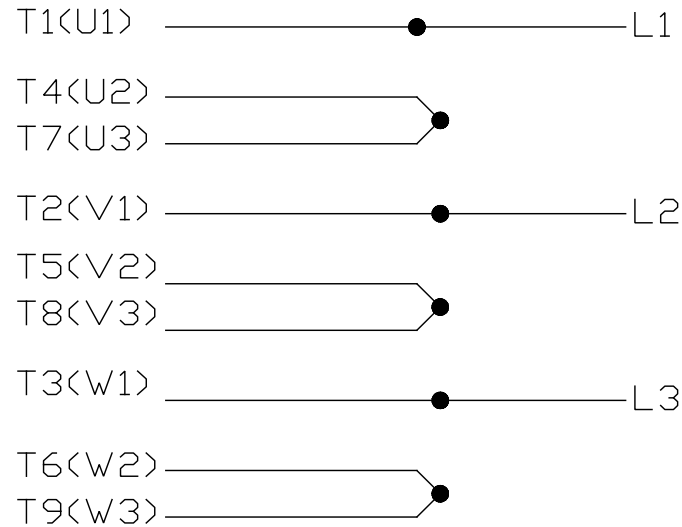
DRAWN BY SMAR
DATE 06/07/2015
APPROVED BY SBD
DATE 06/07/2015
REFERENCE
THIRD ANGLE PROJECTION

 <b>REGAL-BELOIT CORPORATION</b>	
DESCRIPTION <b>OUTLINE</b>	
254/256TC FR-TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620700
	SHEET 1 OF 1

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	±		INCHES	CHK	ML 06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.					
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1			APPD GK 06-15-1997	
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02	TITLE	CONNECTION DIAGRAM		
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		DELTA CON. - 3Ø - 9 LEADS		
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005	MAT'L.	FMF		
					±7'30"	FINISH	PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE EE7308K		SIZE	DRAWING NO. PAGE OF	REV.
				DIST			A	EE7308K	E



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

**CERTIFICATION DATA SHEET**

**CUSTOMER PO #:**  
**MODEL #:** 254TTFCDD6078 AA  
**CUSTOMER PART #:**

**CONN. DIAGRAM:** EE7308K  
**OUTLINE:** SS620700  
**WINDING #:** HE31606007 2  
**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
7 1/285	5.6083.70	1200	1182&985	254TC	TEFC	H	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	19.8/9.9&17/8.5	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

<b>FULL LOAD EFF:</b>	91&890.2	<b>3/4 LOAD EFF:</b>	91	<b>1/2 LOAD EFF:</b>	89.5	<b>GTD. EFF</b>	90.2	<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	78.5&874	<b>3/4 LOAD PF:</b>	72	<b>1/2 LOAD PF:</b>	60	<b>SQ CAGE INV RATED</b>		

<b>F.L. TORQUE LB-FT</b>	120 / 60	<b>L.R. TORQUE LB-FT</b>	65	<b>B.D. TORQUE LB-FT</b>	89	<b>266 %</b>	40
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<b>SOUND PRESSURE @ 3 FT. DBA</b>	56	<b>SOUND POWER DBA</b>	66	<b>ROTOR WK^2 LB-FT^2</b>	2.3	<b>MAX. WK^2 LB-FT^2</b>	150	<b>SAFE STALL TIME SEC.</b>	20	<b>STARTS / HOUR</b>	2	<b>APPROX. MOTOR WGT LBS.</b>	325
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**\*\*\* 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 T2B	FALSE	NONE	BLUE (ENAMEL)

BEARINGS DE ODE		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6209						

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

<b>INVERTER TORQUE:</b>	CONSTANT 20:1/VARIABLE 20:1
<b>INV. HP SPEED RANGE:</b>	NONE
<b>ENCODER:</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 06:37:37 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 7.5&5

PHASE 3

Model No 254TTFC6078

60

HZ

VOLTS 230/460&190/380

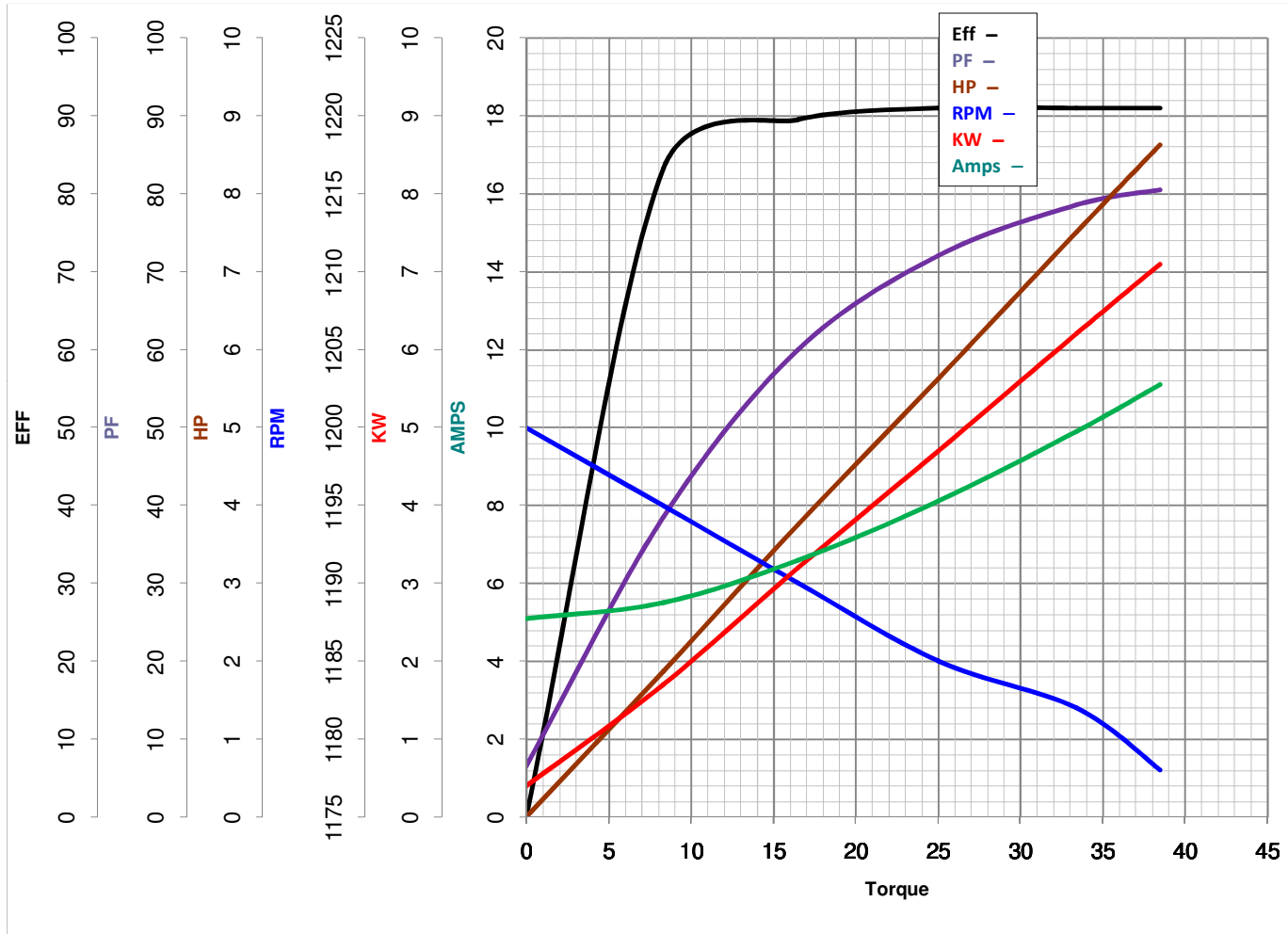
7.5

HP

Catalog No GT1217A

HZ 60&50

RPM 1182&985



Torque in Lb.Ft

FL TORQUE 33.4 Lb.Ft

BD TORQUE 89.0 Lb.Ft

LR TORQUE 65 Lb.Ft

FL AMPS 19.8/9.9

PU TORQUE 55.0 Lb.Ft

LR AMPS 60

WINDING HE31606007-2

Prepared By

FAREEDA

Date 5/4/2018