

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 254TTDBD6082  
Catalog No: GT0457  
7 1/2, 1200, DP, 254JM, 3/60/230/460  
JM



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**REGAL**<sup>®</sup>



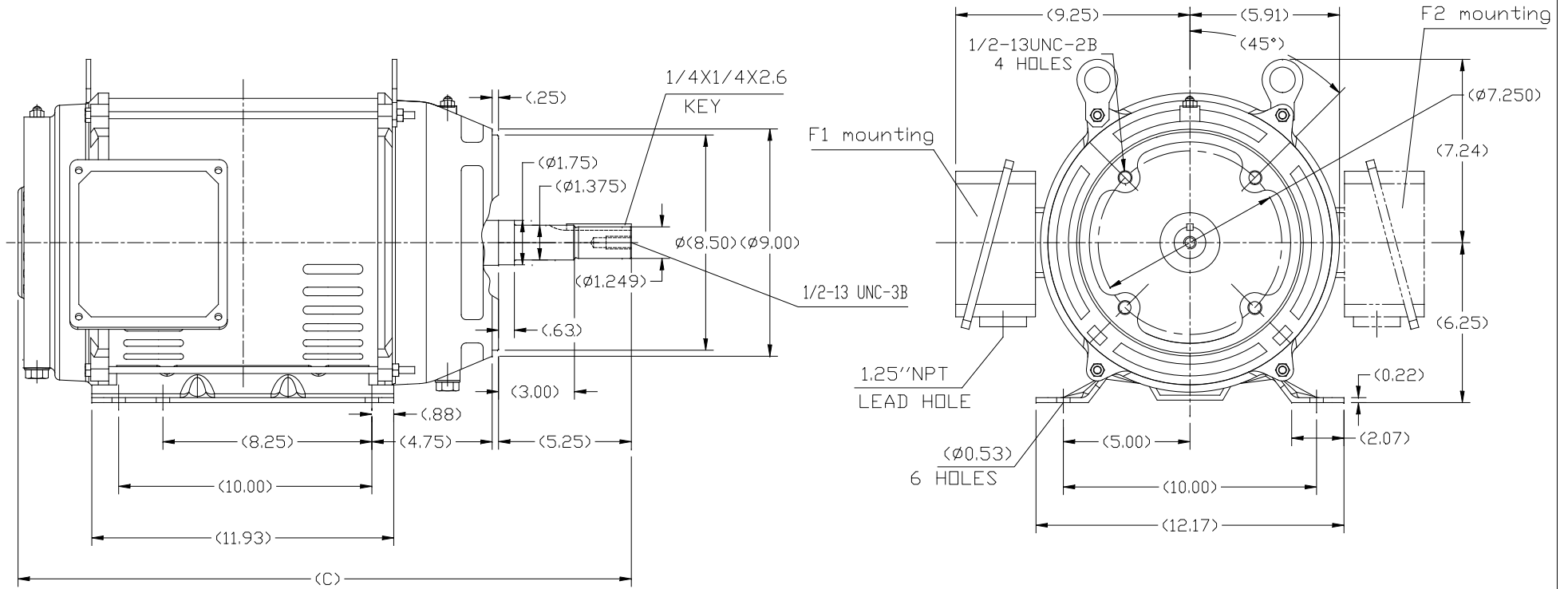
### Nameplate Specifications

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>20.2/10.1 A</b>	Speed	<b>1182 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>90.2 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>H</b>	Frame	<b>254JMV</b>
Enclosure	<b>Drip Proof</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>6208</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>22</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 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>10.62 in</b>	Shaft Diameter	<b>1.249 in</b>
Shaft Extension	<b>5.5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS620822-254</b>	Connection Diagram	<b>EE7308K</b>

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254T	24.41	YES
256T	25.99	YES
FRAME	C	F1/F2

		TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION		DRAWN ZXW 17-04-2017	
		DEC.	INCHES			CHK WY 17-04-2017	
		.X	±.1			APPD ZYH 17-04-2017	
		.XX	±.03	TITLE	OUTLINE		SCALE
		.XXX	±.005	254/256T ODP-JM-ROLLED STEEL			REF
		.XXXX	±.0005	MAT'L.			FMF REGAL-WUXI
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	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	SS620822	SIZE
				DIST			DRAWING NO.
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							SS620822
							REV.


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
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	
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						DIST	SIZE	DRAWING NO. PAGE OF
							A	EE7308K
								REV. E



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:** CUSTOMER  
**ORDER #:** PO #:  
**CONN. DIAGRAM:** EE7308K MODEL #: 254TTDBD6082 AA  
**OUTLINE:** SS620822-254 CUSTOMER PART #:  
**WINDING #:** HE31606009 2 MOUNTING: F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
7 1/2&5	5.60&3.70	1200	1182&8984	254JMV	DP	H	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	20.2/10.1&17.6/8.8	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

<b>FULL LOAD EFF:</b>	90.2&89.5	<b>3/4 LOAD EFF:</b>	90.2	<b>1/2 LOAD EFF:</b>	88.5	<b>GTD. EFF</b>	89.5	<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	77&73	<b>3/4 LOAD PF:</b>	70	<b>1/2 LOAD PF:</b>	58	SQ CAGE INV RATED		

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
33.4 LB-FT	120 / 60	66 LB-FT	198 %	85 LB-FT 254 %
40				

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 DBA	72 DBA	2.4 LB-FT^2	150 LB-FT^2	15 SEC.	2	225 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	NONE	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
6309	6208						

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

**INVERTER**

TORQUE: CONSTANT 2.1/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

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\*

**PREPARED BY:** Fareeda Dudekula  
**DATE:** 05/04/2018 06:04:27 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 254TTDBD6082

60

HZ

VOLTS 230/460&190/380

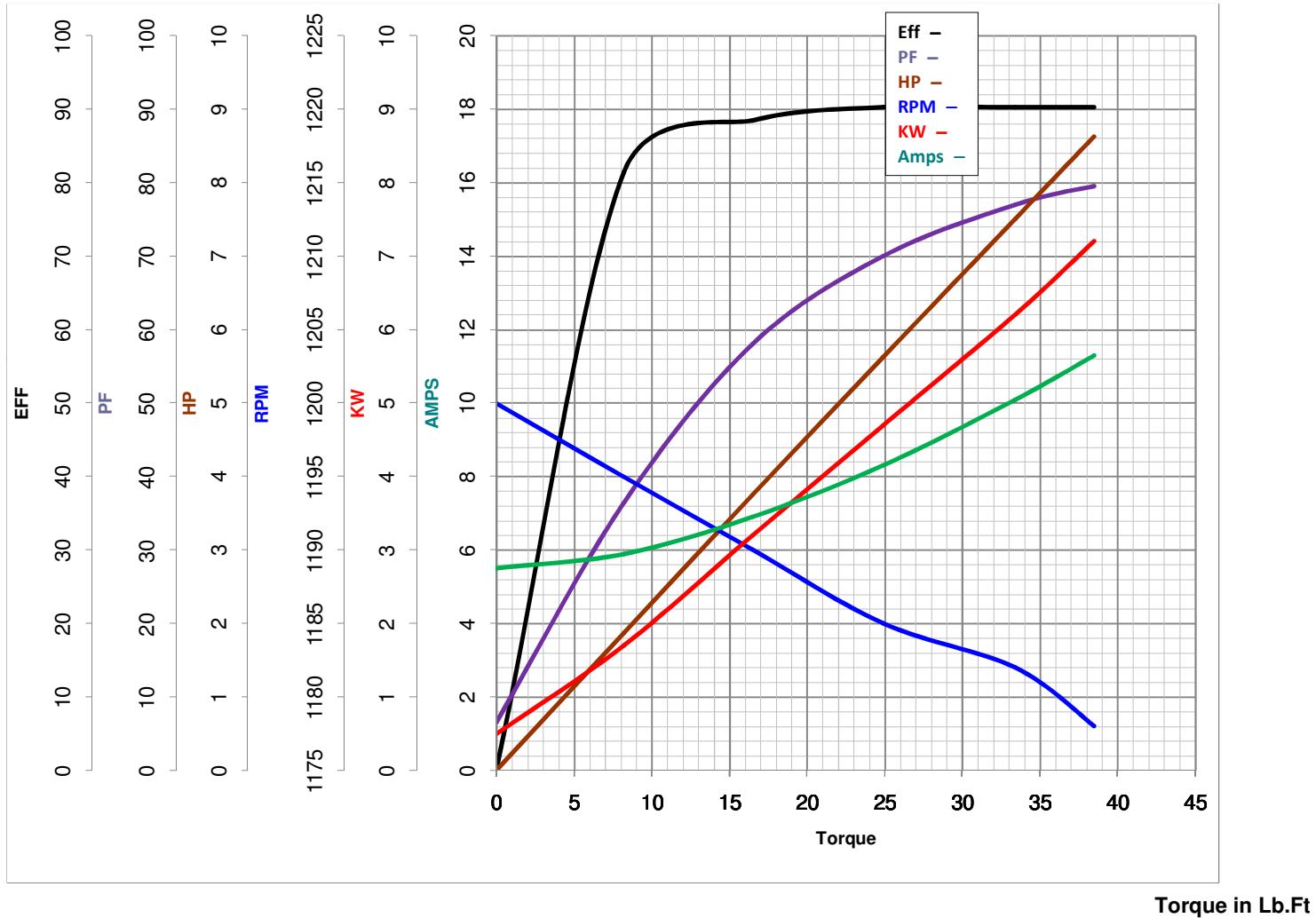
7.5

HP

Catalog No GT0457

HZ 60&50

RPM 1182&984



FL TORQUE 33.4 Lb.Ft  
 BD TORQUE 85.0 Lb.Ft  
 LR TORQUE 66 Lb.Ft

FL AMPS 20.2/10.1  
 PU TORQUE 56.0 Lb.Ft  
 LR AMPS 60

WINDING HE31606009-2 Prepared By FAREEDA

Date 5/4/2018