

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 254TTDBD6012
Catalog No: GT2461
20,3600,DP,254JP,3/60/230/460
JP



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REGAL[®]



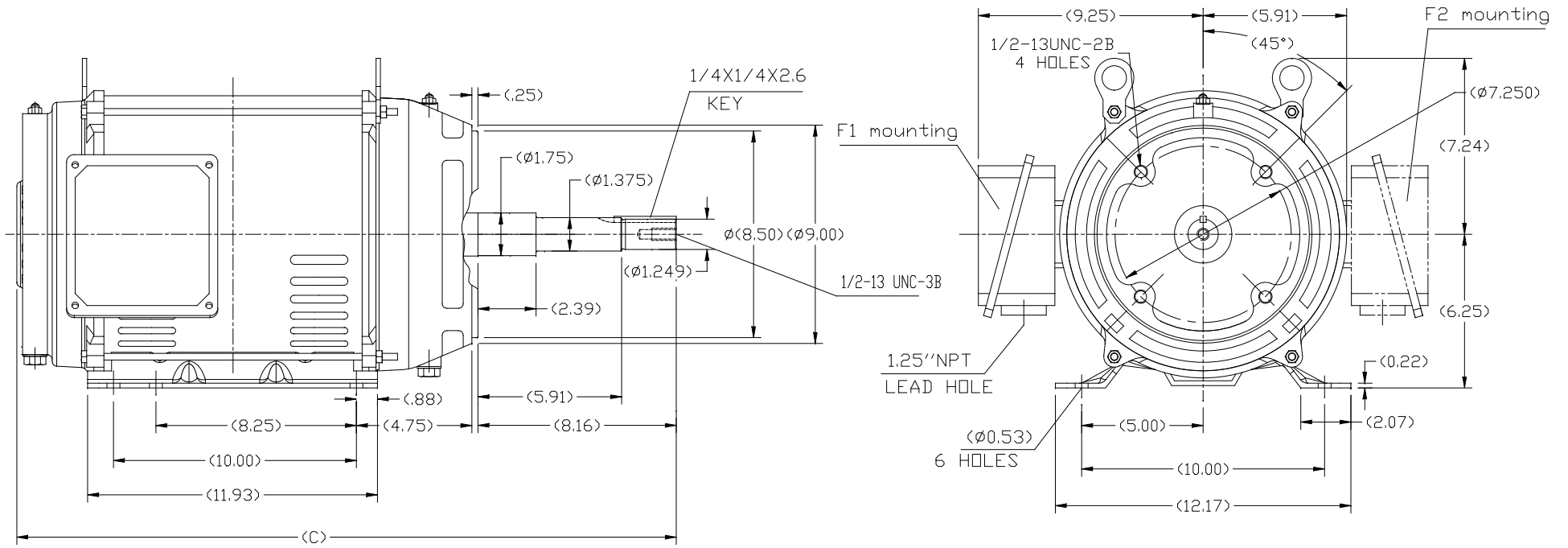
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	48.0/24.0 A	Speed	3552 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	F	Frame	254JP
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	JP
Frame Length	10.62 in	Shaft Diameter	1.249 in
Shaft Extension	8.41 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620825-254	Connection Diagram	EE7308K

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254T	27.32	YES
256T	28.9	YES
FRAME	C	F1/F2

		TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN ZXW 25-02-2016			
		DEC.	INCHES			CHK WY 25-02-2016			
		.X	±.1			APPD ZYH 25-02-2016			
		.XX	±.03	TITLE	OUTLINE	SCALE			
		.XXX	±.005	254/256T ODP-JP-ROLLED STEEL		REF			
		.XXXX	±.0005	MAT'L.		FMF REGAL-WUXI			
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PREV		
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				DIST			B	SS620825	


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	±		UNIT	CHK	ML 06-05-1997				
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.		INCHES							
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	SCALE					
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		CONNECTION DIAGRAM	REF					
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005		DELTA CON. - 3Ø - 9 LEADS	FMF					
					±7'30"		MAT'L.	PREV					
							FINISH						
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							DIST		A	EE7308K			E



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

CERTIFICATION DATA SHEET

CUSTOMER: CUSTOMER PO #:
ORDER #: MODEL #: 254TTDDBD6012 AA
CONN. DIAGRAM: EE7308K CUSTOMER PART #:
OUTLINE: SS620825-254 MOUNTING: F1/F2 CAPABLE
WINDING #: HE31602015 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
20815	14.9&11.2	3600	3552&2958	254JP	DP	F	B	
PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	48/24&45/22.5	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:	91&891	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.6	GTD. EFF	90.2	ELEC. TYPE
FULL LOAD PF:	85.5&84.5	3/4 LOAD PF:	80.5	1/2 LOAD PF:	69.5	SQ CAGE INV RATED		
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°c				
29.6 LB-FT	274 / 137	52 LB-FT	176 %	74 LB-FT	250 %	45		

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 DBA	85 DBA	1.1 LB-FT^2	- LB-FT^2	15 SEC.	3	300 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	NONE	FALSE	NONE	BLUE (ENAMEL)
BEARINGS DE ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
BALL BALL 6309 6208	POLYREX EM	JP	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL		

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

* INVERTER	TORQUE: CONSTANT 2:1/VARIABLE 20:1
N INV. HP SPEED RANGE:	NONE
O ENCODER:	NONE
T NONE	NONE
E NONE	PPR
S BRAKE:	NONE
* NONE	P/N NONE
	NONE
	NONE
	FT-LB NONE V NONE Hz

PREPARED BY: Fareeda Dudekula
DATE: 05/09/2018 08:35:13 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 20&15

PHASE 3

Model No 254TTDBD6012

60

HZ

VOLTS 230/460&190/380

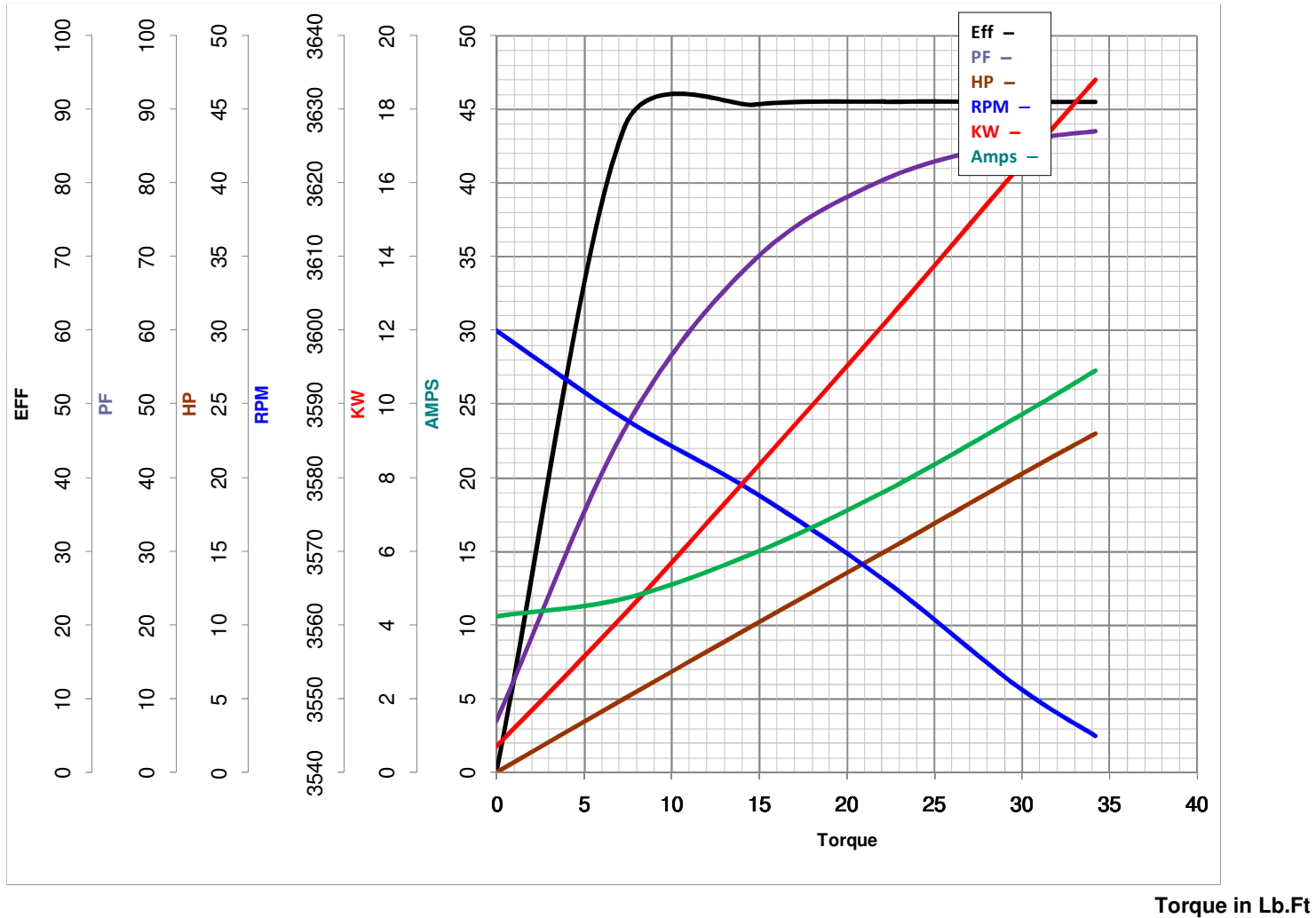
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HP

Catalog No GT2461

HZ 60&50

RPM 3552&2958



FL TORQUE 29.6 Lb.Ft
 BD TORQUE 74.0 Lb.Ft
 LR TORQUE 52 Lb.Ft

FL AMPS 48/24
 PU TORQUE 44.0 Lb.Ft
 LR AMPS 137

WINDING HE31602015-2 Prepared By FAREEDA

Date 5/9/2018