

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 256TTDBD6026  
Catalog No: GT0062  
20,1800,DP,256T,3/60/230/460  
Open Drip Proof (ODP)



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**REGAL**<sup>®</sup>



### Nameplate Specifications

Output HP	<b>20 Hp</b>	Output KW	<b>14.9 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>48.5/24.3 A</b>	Speed	<b>1770 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>93 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>256T</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>12</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line 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>Rolled Steel</b>	Shaft Type	<b>T</b>
Overall Length	<b>24.22 in</b>	Shaft Diameter	<b>1.625 in</b>
Shaft Extension	<b>4 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>B-SS620685</b>	Connection Diagram	<b>A-EE7308K</b>

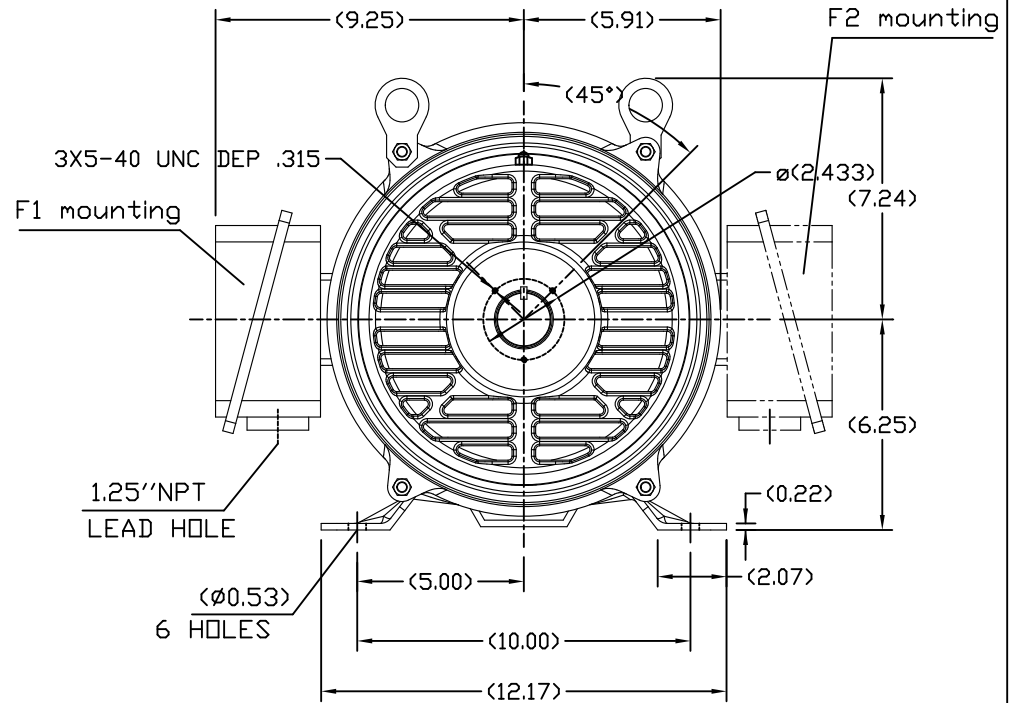
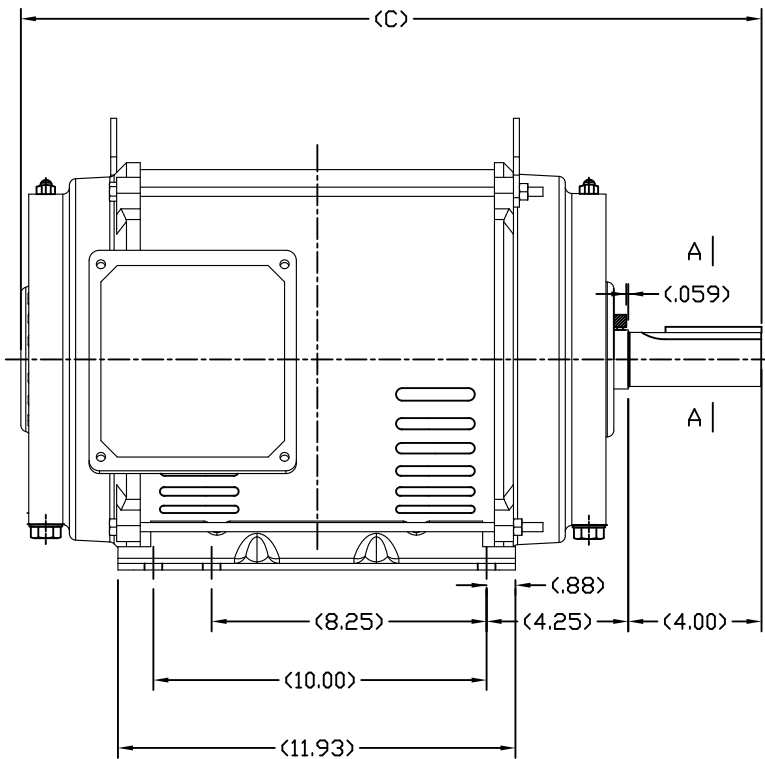
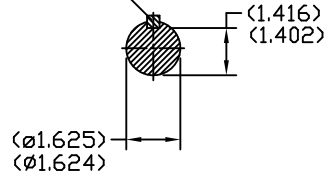
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# Uncontrolled Copy

SS620685

A - A

3/8X3/8X2.88  
KEY



254T	22.64
256T	24.22
FRAME	C

		TOLERANCES UNLESS SPECIFIED		DRAWN Xiaowei Zhu	
		DEC.	INCHES	CHK	
		.X	±.1	APPD	
		.XX	±.03	SCALE	
		.XXX	±.005	REF	
		.XXXX	±.0005	FMF REGAL-VUXI	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°
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	SS620685
			DIST	SIZE	DRAWING NO.
				B	SS620685
					REV. 2

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL 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		APPD	GK 06-15-1997		
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1						
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		MAT'L.		FMF		
					±7'30"		FINISH		PREV		
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				DIST			A	EE7308K			E

**CERTIFICATION DATA SHEET**

**Model#:** 256TTDBD6026 AA      **WINDING#:** HE31604015 NONE 2  
**CONN. DIAGRAM:** A-EE7308K      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS620685

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	1800	1770&1474	256T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	48.5/24.3&45/ 22.4	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.0	40	3300

FULL LOAD EFF: 93&92.4	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.5&83	3/4 LOAD PF: 79.5	1/2 LOAD PF: 69.5	92.4	SQ CAGE INV RATED	19.6 / 9.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.4 LB-FT	288 / 144	118 LB-FT 199	146 LB-FT 246	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
74 dBA	84 dBA	2.8 LB-FT^2	125 LB-FT^2	20 SEC.	2	325 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: VARIABLE 10:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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Data Sheet

256TTDBD626



Date: 6/19/2017  
 Customer:   
 Attention:   
 Submitted by: FAREEDA DUDEKULA

Submital  
 Data @ 460 V

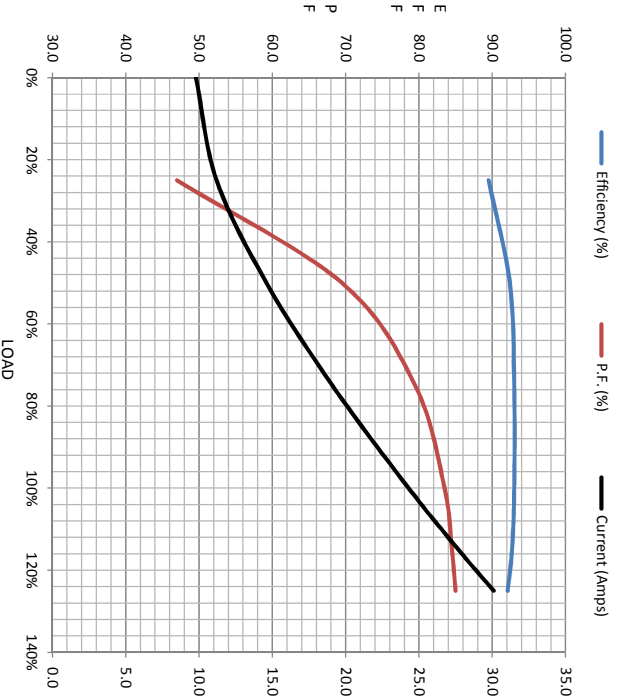
Load	Motor Load Data						LR	
	0%	25%	50%	75%	100%	115%		125%
Current (Amps)	9.8	11.2	14.6	19.1	24.3	27.7	30.1	144
Torque (ft-lb)	0.00	14.5	29.5	44.3	59.4	68.4	74.5	118
RPM	1800	1793	1785	1778	1770	1765	1762	0
Efficiency (%)		89.5	92.4	93.0	93.0	92.7	92.1	
P.F. (%)	5.0	47.0	69.5	79.5	83.5	84.5	85.0	43.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	900	1628	1770	1800
Current (Amps)	144	129	82.0	24.3	9.8
Torque (ft-lb)	118	98.0	146	59.4	0.00

Information Block

HP	20.0			
Sync. RPM	1800			
Frame	256			
Enclosure	DP			
Construction	TDC			
Voltage	30/460#190/38 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wkt	2.80 Lb-Fe			
Rel Wdg	HE31604015 NONE			
Sound Pressure @ 1M	74 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS620885			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3380	0.1920	1.0680	1.2350	27.3210



Speed - Torque Curve

