

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTFB6031

Catalog No: GT3119

Globetrotter® Close-Coupled Pump Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 215JM Frame, TEFC



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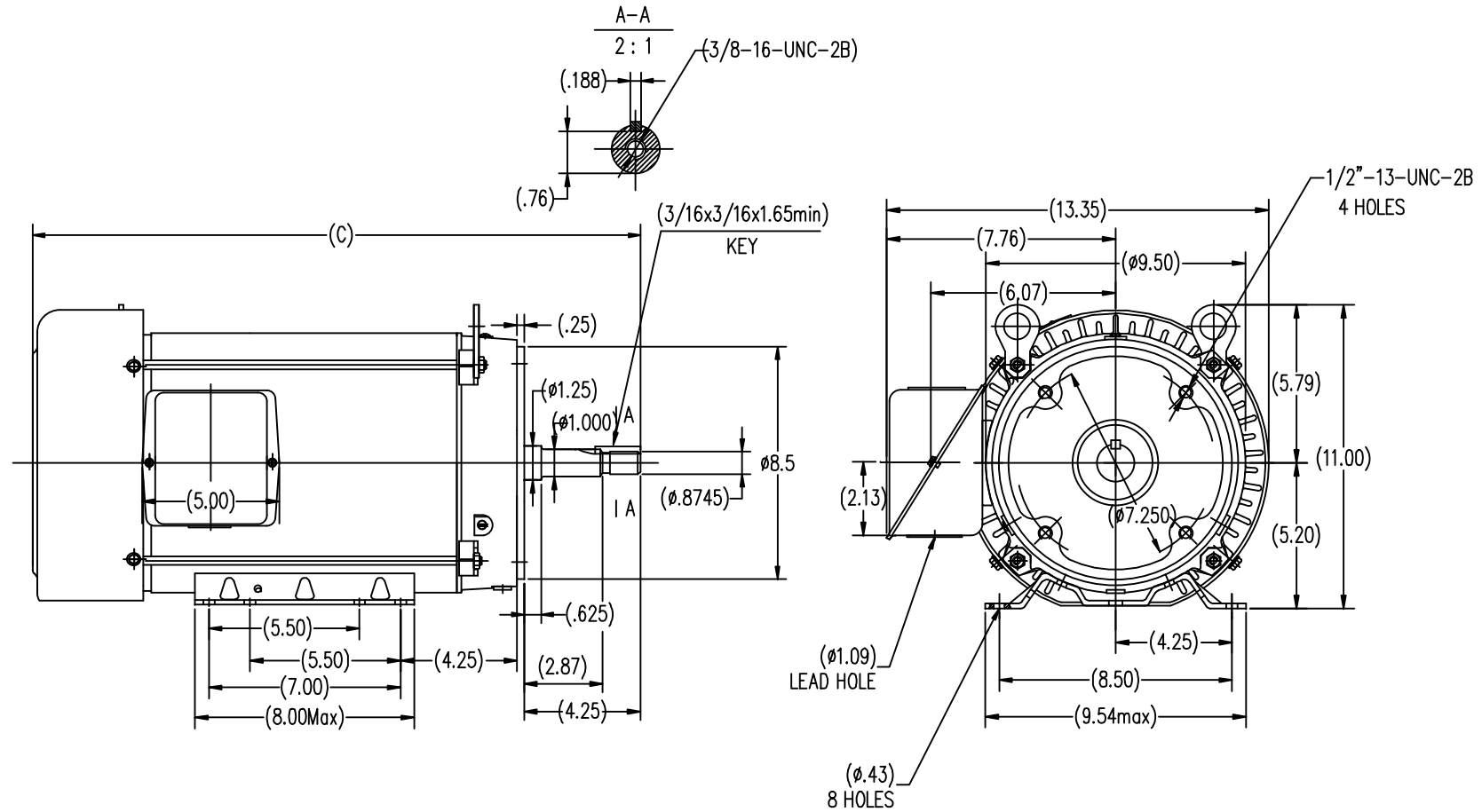
**RegalRexnord**

### Nameplate Specifications


Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1768 & 1472 rpm	Service Factor	1.15 & 1.15
Frame	215JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	24.4/12.2 & 24/12 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.755 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	20.65 in
Frame Length	11.15 in	Shaft Diameter	0.875 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS620561-215TC	Connection Drawing	EE7308



213TC	20.65
215TC	22.14
FRAME	C

		TOLERANCES UNLESS SPECIFIED		 <b>REGAL-BELOIT CORPORATION</b>	DRAWN Lee 05-16-2012	
		DEC.	INCHES		CHK	HPH 05-16-2012
		.X	±.1		APPD	JGX 05-16-2012
		.XX	±.03		SCALE	1=4
		.XXX	±.005		REF	
		.XXXX	±.0005	MAT'L	FMF	HWADA
NO.	REVISION	BY & DATE	CHK	ANG	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	SS620561	SIZE
			DIST			B
						DRAWING NO.
						SS620561
						REV.



				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>	DRAWN RM 11/20/1990		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML 11/21/1990		
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS 04/24/2003		
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1		
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR	REF		
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH	PREV		
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			DIST WP						

## CERTIFICATION DATA SHEET

Model#: 215TTFB6031 AA

WINDING#: CHT21540007 NONE 1

CONN. DIAGRAM: EE7308

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620561

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.5&5.6	1800	1768&1472	215JM	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	24.4/12.2&24/ 12	LINE OR INVERTER	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84&78	3/4 LOAD PF: 75	1/2 LOAD PF: 61	91	SQ CAGE INV RATED	12.4 / 6.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	174 / 87	50 LB-FT 168	85 LB-FT 285	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.2 LB-FT^2	85 LB-FT^2	25 SEC.	2	210 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		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6206	POLYREX EM	JM	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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DATE: 06/21/2017 10:18:34 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.

## Data Sheet

Date: 6/29/2017

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



215TTFB6031

Submittal

Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.2	6.8	8.4	10.5	12.2	13.7	15.8	87.0	
Torque (ft-lb)	0.00	7.3	14.7	22.2	29.8	34.2	37.4	50.0	
RPM	1800	1792	1785	1778	1768	1,765	1760	0	
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	90.2		
P.F. (%)	5.5	40.0	61.0	75.0	84.0	85.0	85.0	34.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	900	1710	1768	1800	HP	10.0			
Current (Amps)	87.0	80.0	52.0	12.2	6.2	Sync. RPM	1800			
Torque (ft-lb)	50.0	44.0	85.0	29.8	0.00	Frame	215			
<div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Enclosure	TEFC			
						Construction	TFC			
						Voltage	30/460#190/3Ø V			
						Frequency	60 Hz			
						Design	A			
						LR Code letter	H			
						Service Factor	1.15			
						Temp Rise @ FL	70 °C			
						Duty	CONT			
						Ambient	40 °C			
						Elevation	1,000 feet			
						Rotor/Shaft wk <sup>2</sup>	1.20 Lb-Ft <sup>2</sup>			
						Ref Wdg	CHT21540007 NONE			
						Sound Pressure @ 1M	62 dBA			
						VFD Rating	VARIABLE 10:1			
						Outline Dwg	SS620561			
						Conn. Diag	EE7308			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.4830		0.4120		2.2150		3.0670		59.3560		

## Speed -Torque Curve

