# **PRODUCT INFORMATION PACKET**

Model No: 100LTFC6502 Catalog No: R451A Globetrotter® IEC Cast Iron Motor, 4 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 100L Frame, TEFC



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Motors

Product Information Packet: Model No: 100LTFC6502, Catalog No:R451A Globetrotter® IEC Cast Iron Motor, 4 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 100L Frame, TEFC

# marathon®

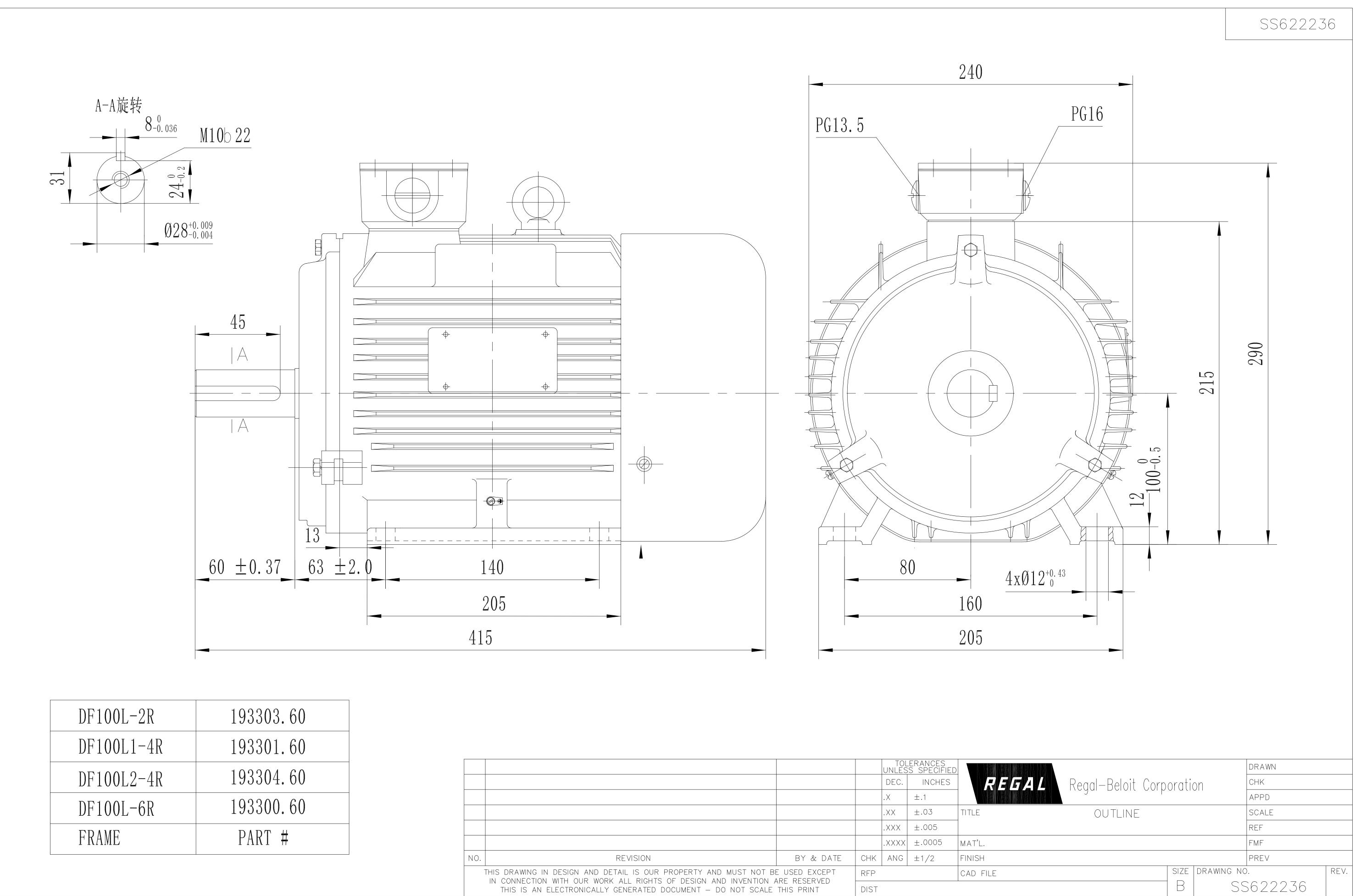
### Nameplate Specifications

Phase	3	Output HP	4 Hp
Output KW	3.0 kW	Voltage	575 V
Speed	3520 rpm	Service Factor	1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	3.8 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Υ	IP Code	54
Number of Speeds	1		

### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	3.865 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	16.33 in
Shaft Diameter	1.111 in	Shaft Extension	2.36 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 20:1
Connection Drawing	00510201ME	Outline Drawing	SS622236-DF100L-2R

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DF100L-2R	193303.60
DF100L1-4R	193301.60
DF100L2-4R	193304.60
DF100L-6R	193300.60
FRAME	PART #

.XXX     ±.005	
Image: Second state   .X   ±.1     Image: Second state   .XX   ±.03   TIT     Image: Second state   .XXX   ±.005   TIT	
.XX ±.03 TIT   .XXX ±.005	
.XXX ±.005	
	ITLE
.XXXX ±.0005 MA	IAT'L.
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											00510	2-01ME
	VIEW FROM OUTSIDE OF MOTOR A	T SWITCH EN	D.						NE LE	EADS		
					T T -	2	Т3		TI			T2
								CONNECT FOR FOUR C				)
							CORD	L1 (RED)	L2 (WHIT	E) (E	L3 Black)	(GREEN)
						1	MOTOR	T1	T2		Т3	GROUND
				TOL UNLES DEC. .X	ERANCES S SPECIFIED INCHES ±.1						DRAWN CHK APPD	RDW 5/1/02
				.XX	±.01 ±.005	TITLE	EXTERNA	L WIRING DIA W/O PROT	AGRAM		SCALE	1=1
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### CERTIFICATION DATA SHEET

Model#:	100LTFC6502 AA	WINDING#:	T06802010 NONE 4
CONN. DIAGRAM:	00510201ME	ASSEMBLY:	F3
OUTLINE:	SS622236		

### **TYPICAL MOTOR PERFORMANCE DATA**

НР		ĸw		SYNC.	RPM	F.L	. RPM	FRAM	1E	EN	CLOSU	IRE	KVA	COD	DE	DESIGN		
4		2.98		360	00 3520		100L TEFC			J			В					
РН	Hz	z	VOLT	rs	L AMPS	STA	ART TYPE	DUTY		INSL		S.	F	AI	MB°C	ELEVATION		
3	60	)	575	5	3.75		INE OR VERTER	CONTINU( S	JU	F2		1.1	5		40	3300		
FULL LOAD E	FF: 89.5	5 3/4	LOAD E	FF: 89.5	1/2 LO	1/2 LOAD EFF: 88.5		GTI	D. EF	F		ELEC.	TYPE		NO I	LOAD AMPS		
FULL LOAD	PF: 89	3	/4 LOAD	PF: 86	1/2 L	OAD	AD PF: 78 88.5			SQ C	AGE I	NV RATE	D		1			
F.L. TO	RQUE		LOCK	ED ROTO	R AMPS	L.R. TOF		L.R. TC		DRQUE		B	D. TOF	RQUE			F.L.	RISE°C
6 LB	-FT			30.4			12 LB-FT 200		-T 200		20 LB-FT 332					50		
SOUND PRESS @ 3 FT.	SURE	SOUN	D POWEI	RR	DTOR WK^	2	MAX.	WK^2	SAF	FE STALL	TIME		START		AP	PROX. MOTOR WGT		
72 dBA		8	2 dBA		- LB-FT^2		5 LB-FT^2			15 SEC.			2			- 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)

BEAF	BEARINGS		BEARINGS		SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL		
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON		
6206	6205								

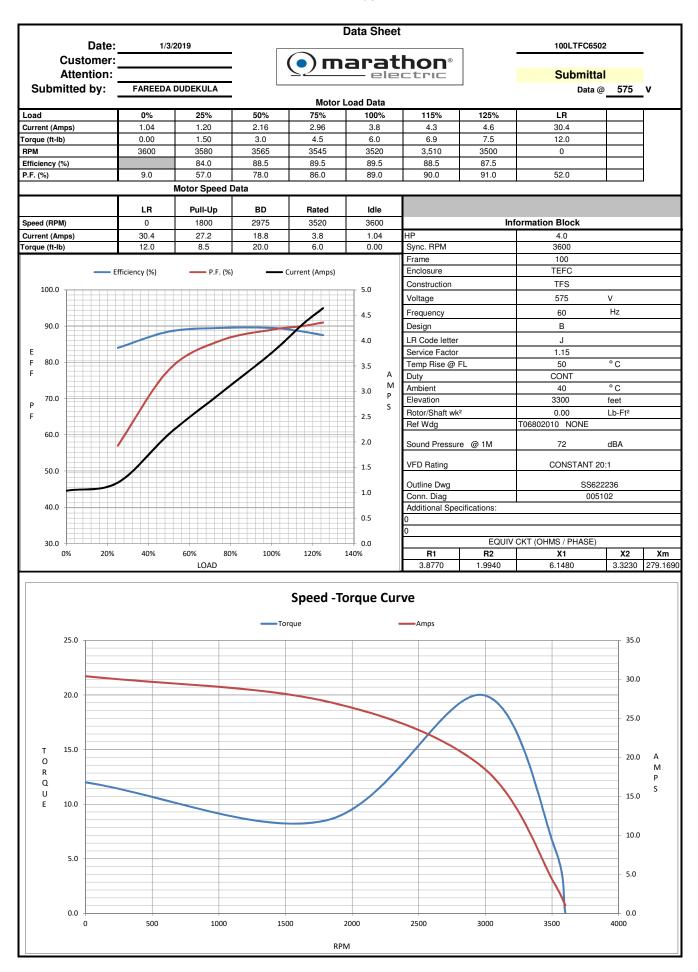
	THERMO-PF	OTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

	Information
•	INVERTER TORQUE: CONSTANT 20:1
Ν	INV. HP SPEED RANGE: 1.5 X BASE SPEED
0	ENCODER: NONE
Т	NONE NONE
E	NONE NONE PPR
S	
*	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	NONE FT-LB NONE V NONE Hz

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## **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 100LTFC6502

(Model No. may contain prefix and/or suffix characters)

Catalog No : R451A

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer