

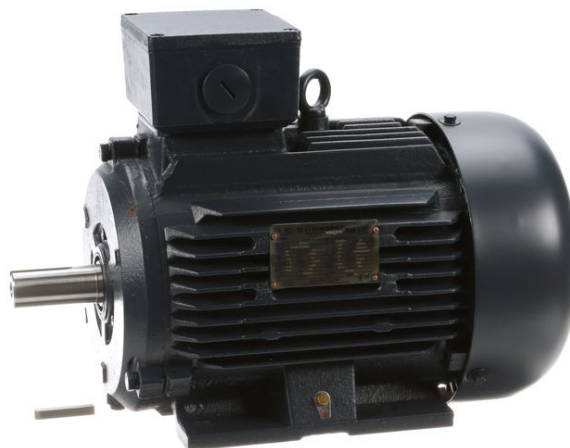
# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 100LTFC6586

Catalog No: R317

Globetrotter® IEC Cast Iron Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,  
1200 & 1000 RPM, 100L Frame, TEFC



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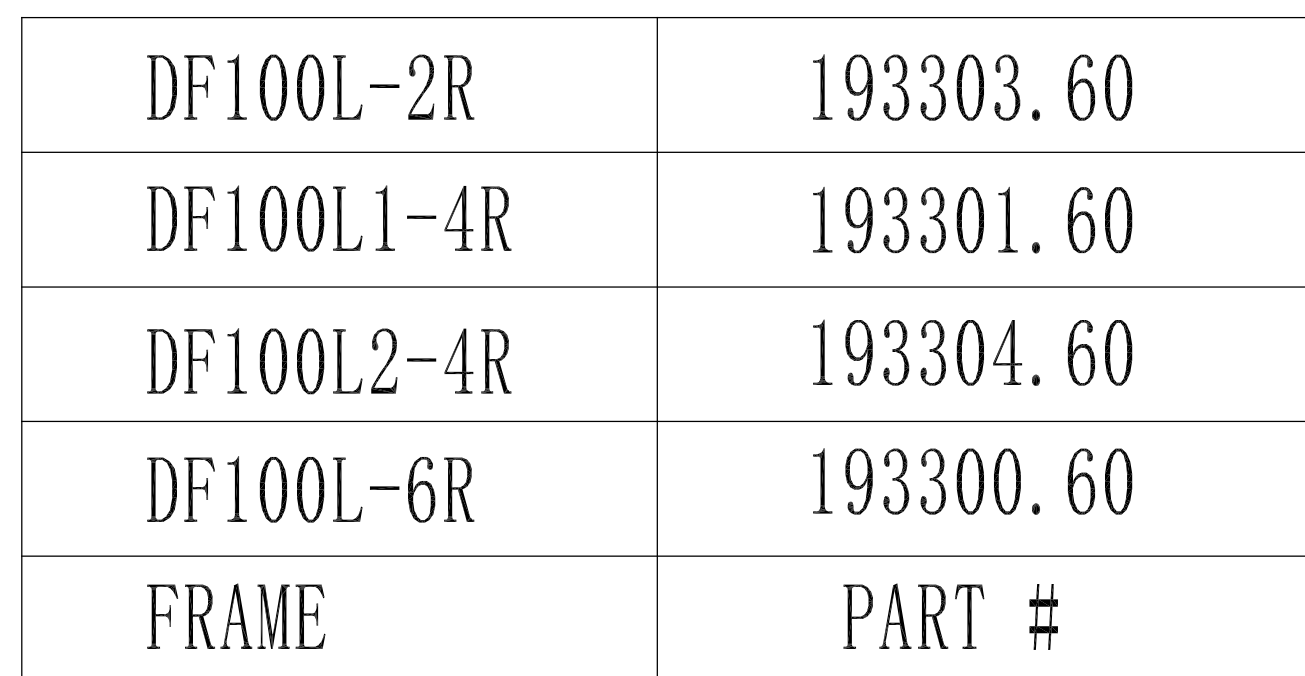
**RegalRexnord**


### Nameplate Specifications

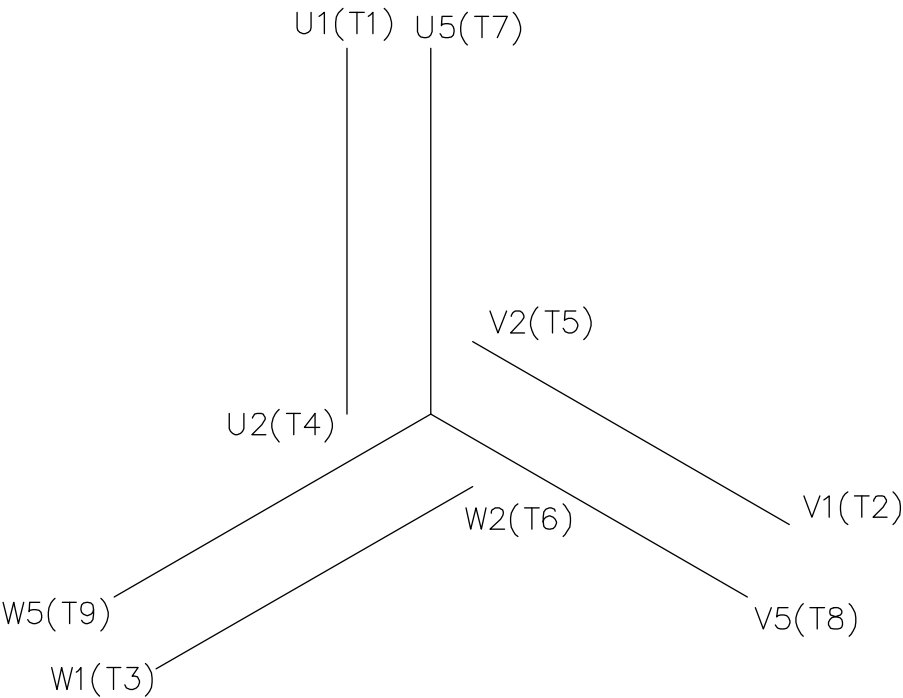
Phase	3	Output HP	1.50 & 1 Hp
Output KW	1.1 & 0.75 kW	Voltage	230/460 & 200/400 V
Speed	1185 & 988 rpm	Service Factor	1.15 & 1.0
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.5 & 86.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	4.6/2.3 & 4.2/2.1 A	Power Factor	68
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	N
CE	Y	IP Code	55
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	4.65 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 2:1
Connection Drawing	00546501	Outline Drawing	SS622236-DF100L-6R



				TOLERANCES UNLESS SPECIFIED		 Regal-Beloit Corporation	DRAWN				
				DEC.	INCHES		CHK				
				.X	±.1		APPD				
				.XX	±.03		TITLE	OUTLINE	SCALE		
				.XXX	±.005				REF		
				.XXXX	±.0005	MAT'L.	FMF				
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			SIZE	DRAWING NO.		REV.
			DIST					B	SS622236		



REF. DECAL (IEC) 080644  
REF. DECAL (NEMA) 080446

IEC MARKINGS						
LOW VOLTAGE			HIGH VOLTAGE			
LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	U1,U5	V1,V5	W1,W5	----	U2,V2,W2	----
HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5

NEMA MARKINGS						
LOW VOLTAGE			HIGH VOLTAGE			
LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	T1, T7	T2, T8	T3, T9	----	T4,T5,T6	----
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9

				TOLERANCES UNLESS SPECIFIED				ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MGM 12/3/02	
				DEC.	INCHES			CHK			
				.X	±.1			APPD			
				.XX	±.01			SCALE 1=1			
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE - DUAL VOLTAGE - W/TERM BLOCK		REF 00537703			
01	NEMA LV CONNECTION WAS INCORRECT	RLW 8/4/03		.XXXX	±.0005			MAT'L. IEC/NEMA MARKINGS		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FINISH	THERMAL TRANSFER	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 00546501		SIZE	DRAWING NO.		REV.	
			DIST				A	005465-01		01	



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER: \_\_\_\_\_  
ORDER #: \_\_\_\_\_  
CONN. DIAGRAM: 00546501  
OUTLINE: SS622236  
WINDING: T08706009 NONE 3  
SPEED: \_\_\_\_\_

CUSTOMER P.O. #: \_\_\_\_\_  
REFERENCE MODEL #: 100LTFC6586  
CAT #: #VALUE!  
CUSTOMER PART #: \_\_\_\_\_  
MOUNTING: F3

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1200	1185	100L	TEFC	TFC	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#200/400	4.6/2.3&4.2/2.1	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	87.5	1/2 LD EFF	84.0	GTD EFF		ELECT. TYPE	
F.L. PF	68.0	3/4 LD PF	60.0	1/2 LD PF	47.0		86.5	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
6.6 LB-FT	16.0	13.5 LB-FT 205%	22.7 LB-FT 344%	35	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
50 dBA	59 dBA	0.00 LB-FT²	0 LB-FT²	20 SEC.	2	90 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
2.698	1.562	9.372	12.922	156.2	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
		ENCODER: NONE NONE NONE NONE PPR
PREPARED BY: EARL BABBITTS DATE: 5/5/2017		BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE UL: V-INS, CONST UL REC
FORM: 3531 REV 4 2/27/06		
		HZ:

## Data Sheet

Date: 11/27/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



100LTFC6586

Submittal

Data @ 460 V

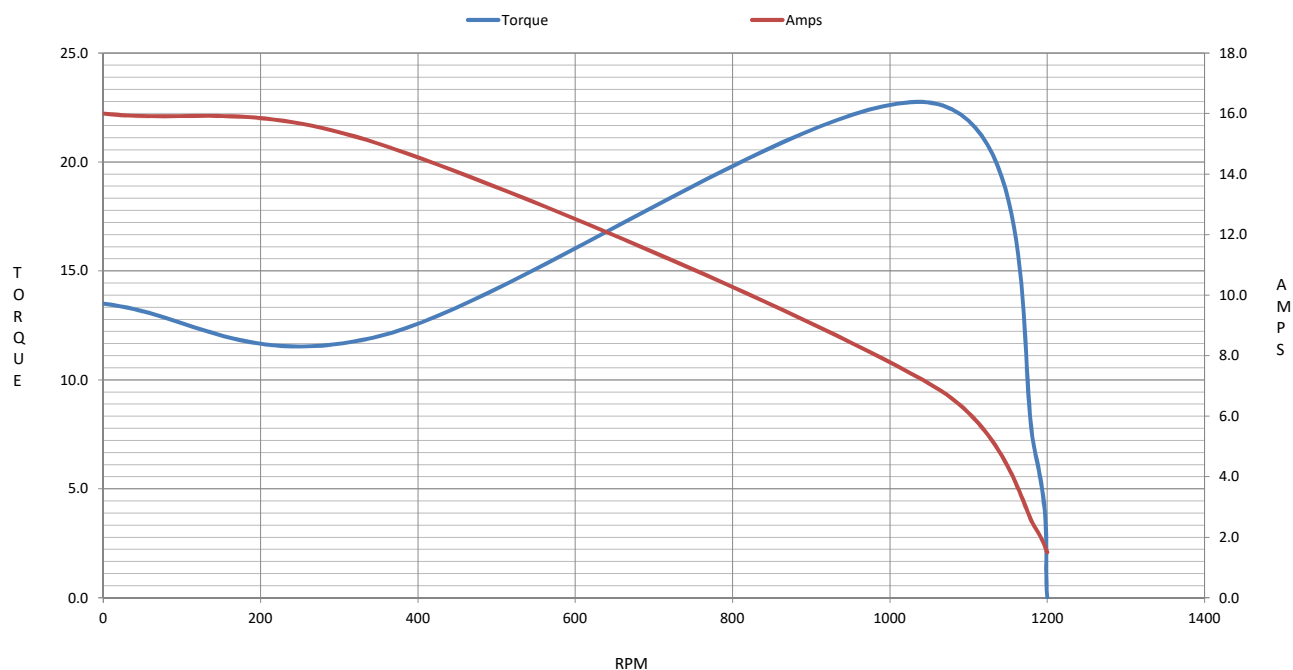
## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.60	1.80	2.00	2.30	2.60	2.80	16.0	
Torque (ft-lb)	0.00	1.60	3.3	5.0	6.6	7.6	8.4	13.5	
RPM	1200	1196	1192	1188	1185	1,182	1178	0	
Efficiency (%)		76.5	84.0	87.5	87.5	87.5	87.5		
P.F. (%)	6.5	28.5	47.0	60.0	68.0	70.0	73.0	42.5	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	350	1055	1185	1200	HP	1.5			
Current (Amps)	16.0	15.0	7.0	2.30	1.50	Sync. RPM	1200			
Torque (ft-lb)	13.5	12.0	22.7	6.6	0.00	Frame	100			
						Enclosure	TEFC			
						Construction	TFS			
						Voltage	230/460#200/400	V		
						Frequency	60	Hz		
						Design	B			
						LR Code letter	K			
						Service Factor	1.15			
						Temp Rise @ FL	35	° C		
						Duty	CONT			
						Ambient	40	° C		
						Elevation	1,000	feet		
						Rotor/Shaft wk <sup>2</sup>	0.00	Lb-Ft <sup>2</sup>		
						Ref Wdg	T08706009	NONE		
						Sound Pressure @ 1M	50	dBA		
						VFD Rating	CONSTANT 2:1			
						Outline Dwg	SS622236			
						Conn. Diag	00546501			
						Additional Specifications:				
						0				
						0				
						EQUIV CKT (OHMS / PHASE)				
						R1	R2	X1	X2	Xm
						2.6980	1.5620	9.3720	12.9220	156.2000

## Speed -Torque Curve



## 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 : 100LTFC6586

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

Catalog No : R317

Rework No : N/A

Directives :

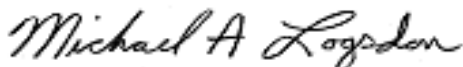
Low Voltage Directive 2014/35/EU

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  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**