

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 100LTFC6526

Catalog No: R322A

Globetrotter® IEC Cast Iron Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,  
100L Frame, TEFC



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**RegalRexnord**

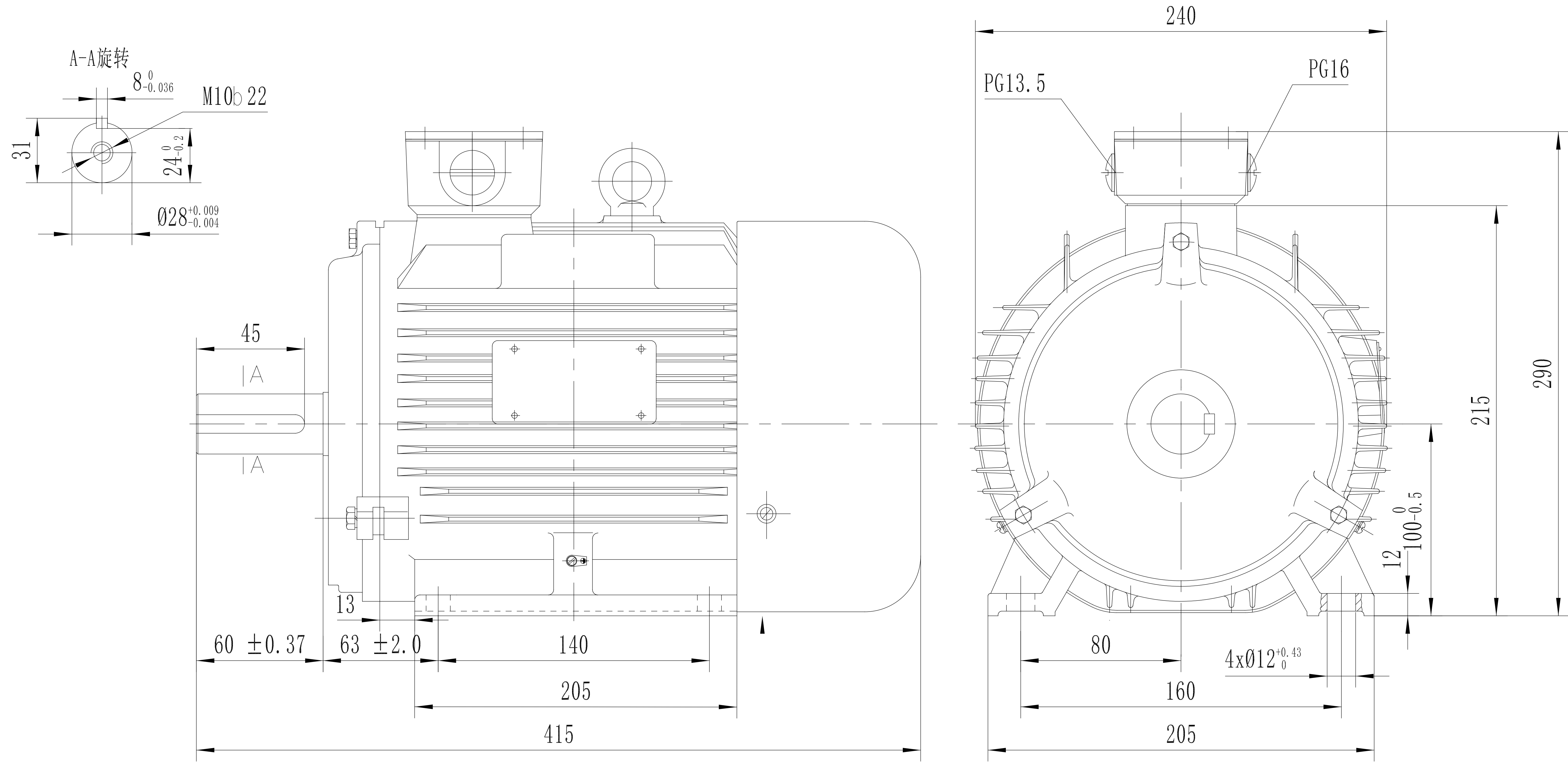
### Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 200/400 V
Speed	1770 & 1475 rpm	Service Factor	1.15 & 1.0
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8/4 & 6.6/3.3 A	Power Factor	79.2
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	No	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		


### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
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		
Outline Drawing	B-SS622236-DF100L1-4R	Connection Drawing	005010.01

SS622236

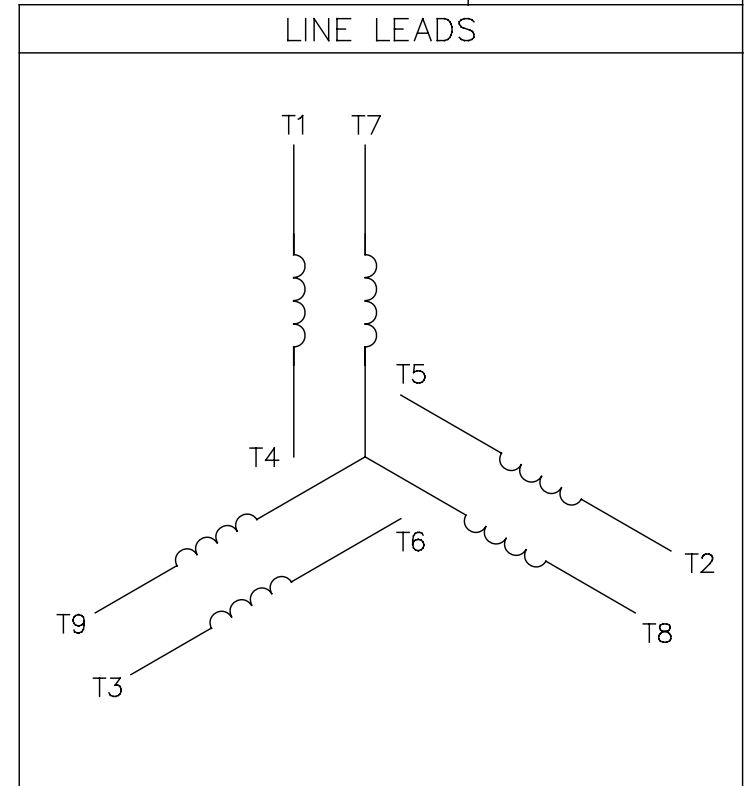


DF100L-2R	193303.60
DF100L1-4R	193301.60
DF100L2-4R	193304.60
DF100L-6R	193300.60
FRAME	PART #


				TOLERANCES UNLESS SPECIFIED		<div> Regal-Beloit Corporation</div>			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
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		

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>			DRAWN RDW 04/12/02	
				DEC.	INCHES				CHK	
				.X	±.1				APPD	
				.XX	±.01				SCALE 1=1	
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF FIG.2-51	
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005				MAT'L. DECAL - 004014	
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 04/12/02		CAD FILE 00501001		SIZE A	DRAWING NO. 005010-01		REV. A
			DIST BRF-NLV							

## CERTIFICATION DATA SHEET

Model#: 100LTFC6526 AA  
 CONN. DIAGRAM: 005010.01  
 OUTLINE: B-SS622236

WINDING#: T08704010 NONE 1  
 ASSEMBLY: F3

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1770&1475	100L	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	8/4&6.6/3.3	LINE OR INVERTER	CONTINUOU S	F2	1.15/1.0	40	3300

FULL LOAD EFF: 90.2&89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79.2&72	3/4 LOAD PF: 73.5	1/2 LOAD PF: 62	89.5	SQ CAGE INV RATED	4 / 2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.9 LB-FT	58.8 / 29.4	19.5 LB-FT 218	32.7 LB-FT 367	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.335 LB-FT^2	0.3 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)

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

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

\*  
N  
O  
T  
E  
S  
\*

INVERTER TORQUE: CONSTANT 20:1  
 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE  
 NONE NONE  
 NONE NONE PPR

BRAKE: NONE NONE  
 NONE P/N NONE  
 NONE NONE  
 NONE FT-LB NONE V NONE Hz

DATE: 06/22/2017 04:19:12 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

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



100LTC6526

Submittal

Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.10	2.60	3.2	3.9	4.3	4.7	29.4	
Torque (ft-lb)	0.00	2.20	4.4	6.7	8.9	10.3	11.2	19.5	
RPM	1800	1795	1785	1775	1770	1,765	1760	0	
Efficiency (%)		81.5	88.5	89.5	89.5	90.2	89.5		
P.F. (%)	7.5	40.5	62.0	73.5	79.5	82.5	83.0	36.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	375	1575	1770	1800																													
Current (Amps)	29.4	26.0	18.3	3.9	2.00																													
Torque (ft-lb)	19.5	15.0	32.7	8.9	0.00																													
<div><div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div><table border="1"><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>82</td><td>0.5</td><td>2.0</td></tr><tr><td>50</td><td>89</td><td>2.5</td><td>3.0</td></tr><tr><td>75</td><td>90</td><td>3.5</td><td>4.0</td></tr><tr><td>100</td><td>90</td><td>4.0</td><td>4.5</td></tr><tr><td>125</td><td>89</td><td>4.2</td><td>4.8</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	82	0.5	2.0	50	89	2.5	3.0	75	90	3.5	4.0	100	90	4.0	4.5	125	89	4.2	4.8	Information Block				
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	82	0.5	2.0																									
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						125	89	4.2	4.8																									
						HP		3.0																										
						Sync. RPM		1800																										
						Frame		100L																										
						Enclosure		TEFC																										
						Construction		TFC																										
						Voltage		230/460#200/400		V																								
						Frequency		60		Hz																								
						Design		B																										
						LR Code letter		J																										
						Service Factor		1.15																										
						Temp Rise @ FL		28		° C																								
						Duty		CONT																										
						Ambient		40		° C																								
						Elevation		1,000		feet																								
						Rotor/Shaft wk²		0.34		Lb-Ft²																								
						Ref Wdg		T08704010 NONE																										
Sound Pressure @ 1M		999		dBA																														
VFD Rating		CONSTANT 20:1																																
Outline Dwg		B-SS622236																																
Conn. Diag		005010.01																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0000	0.0000	0.0000	0.0000	0.0000																														

## Speed -Torque Curve

