PRODUCT INFORMATION PACKET

Model No: 100LTFC6501
Catalog No: R351A
Globetrotter® IEC Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 100L Frame, TEFC

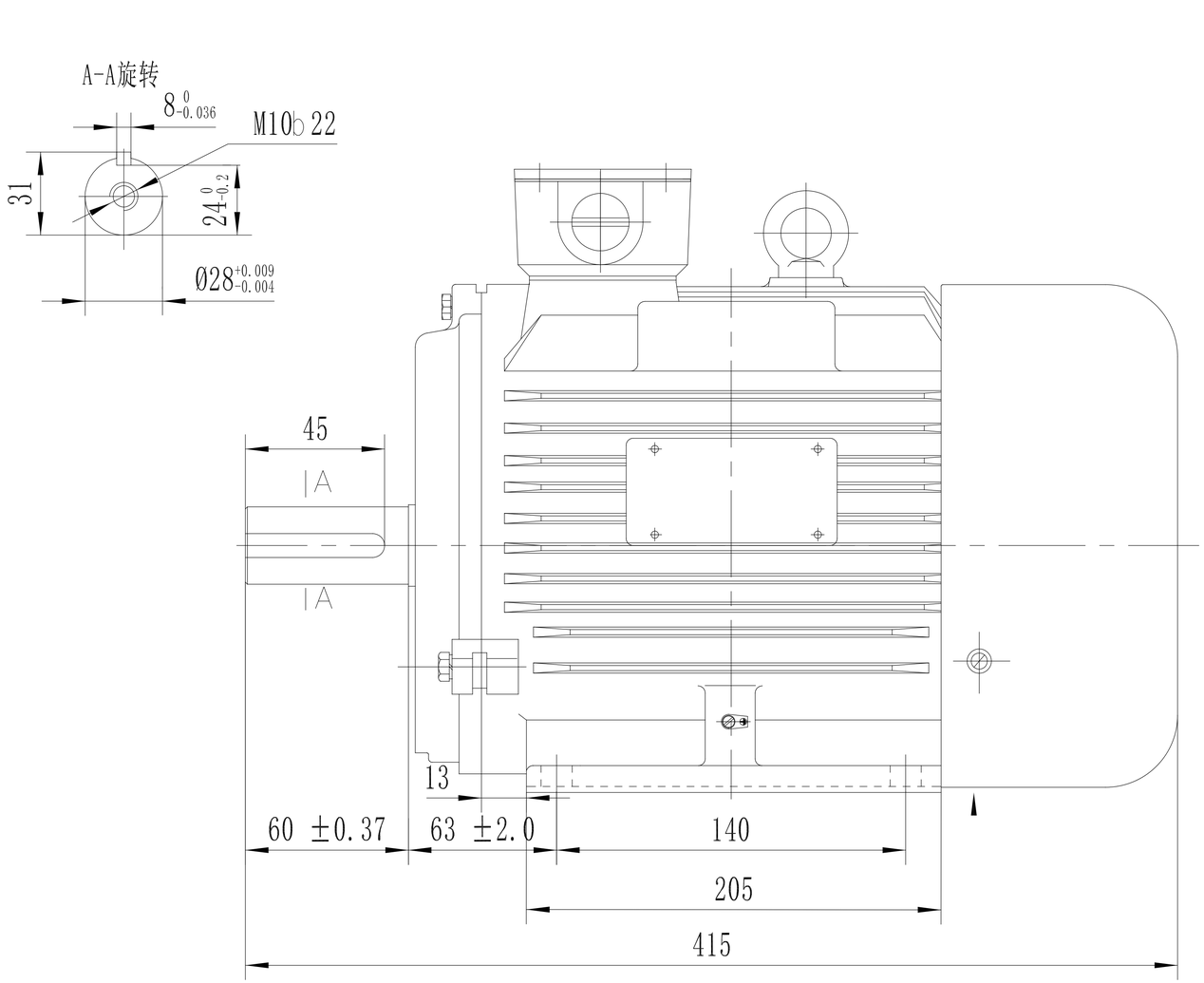
Nameplate Specifications

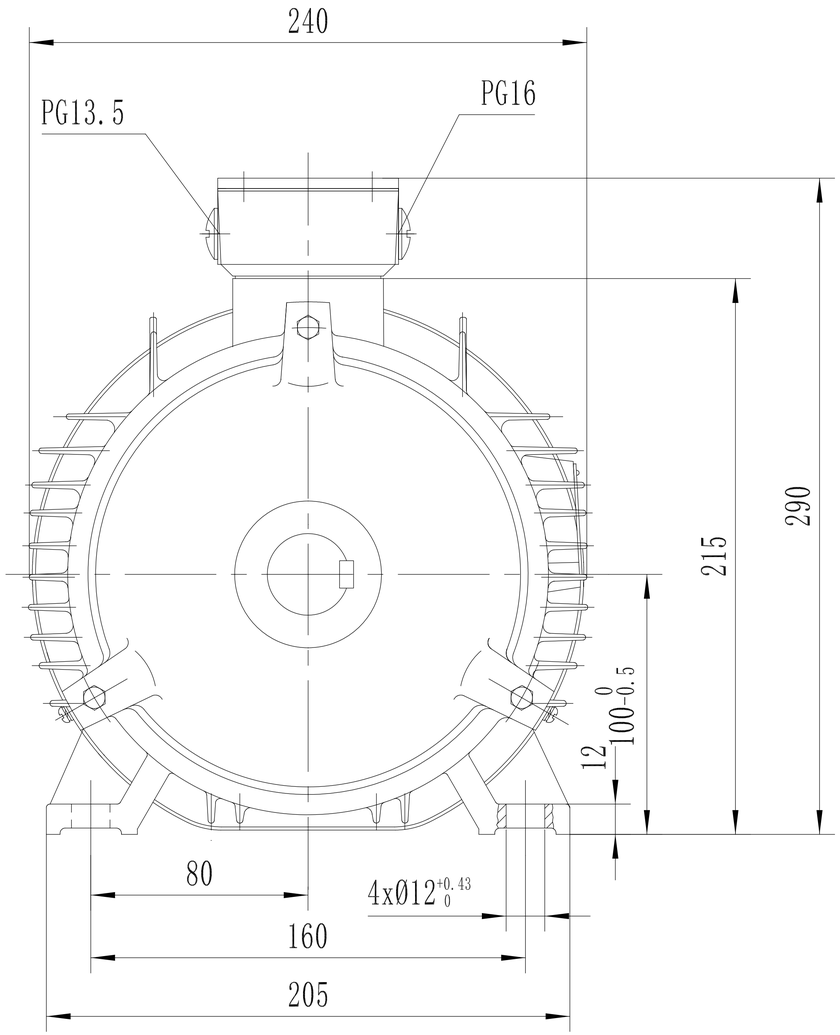
Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	3510 & 2938 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	9.2/4.6 & 8.2/4.1 A	Power Factor	90
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	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	005010.01	Outline Drawing	SS622236-DF100L-2R

SS622236





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

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2

REGAL Regal-Beloit Corporation

TITLE: OUTLINE

MAT'L.

FINISH

DRAWN | CHK | APPD | SCALE | REF | FMF | PREV

RFP

DIST

CAD FILE

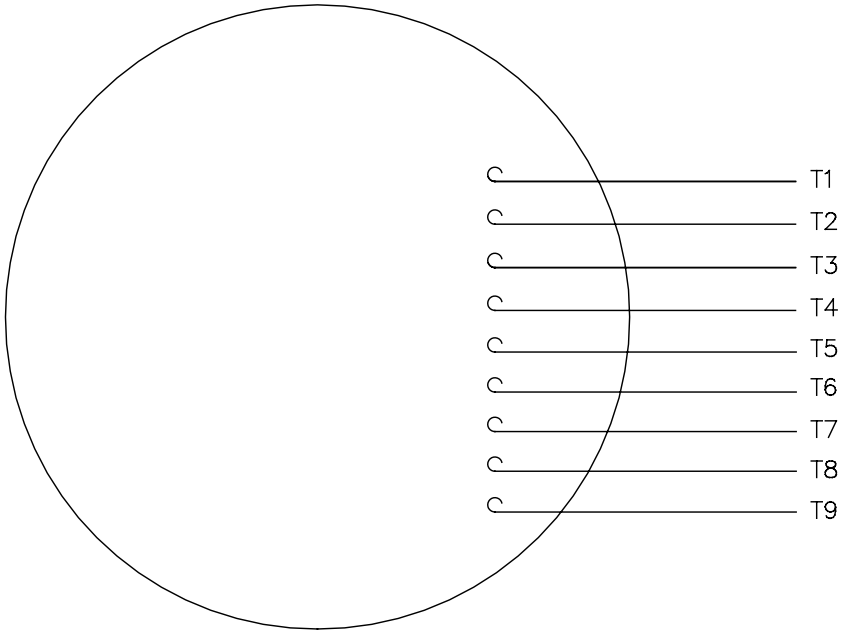
SIZE: B

DRAWING NO.: SS622236

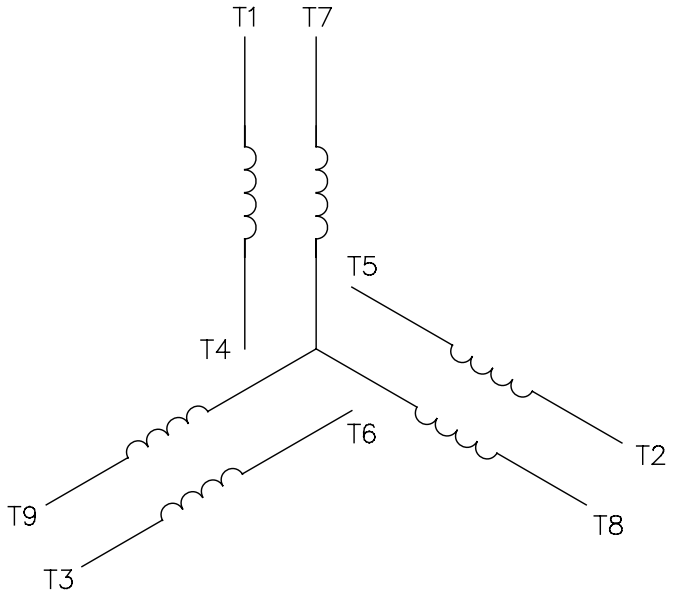
REV.

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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

NO.	REVISION	BY & DATE	CHK
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

REGAL™ Regal Beloit America, Inc.

TITLE: EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR

MAT'L. DECAL – 004014

FINISH

CAD FILE 00501001

RFP 04/12/02

DIST BRF-NLV

DRAWN RDW 04/12/02 | CHK | APPD | SCALE 1=1 | REF FIG.2-51 | FMF | PREV

SIZE A | DRAWING NO. 005010-01 | REV. A

CERTIFICATION DATA SHEET

Model#:	100LTFC6501 AA	**WINDING#:**	T06802008 NONE 3
CONN. DIAGRAM:	005010.01	**ASSEMBLY:**	F3
OUTLINE:	SS622236		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
4&3	2.98&2.24	3600	3510&2938	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	9.2/4.6&8.2/4.1	LINE OR INVERTER	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90&89	3/4 LOAD PF: 87	1/2 LOAD PF: 80	88.5	SQ CAGE INV RATED	3 / 1.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	76 / 38	12 LB-FT 200	20 LB-FT 332	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 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)

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

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: 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

* NOTES *

DATE: 06/22/2017 04:16:09 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

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

marathon electric

100LTFC6501

Submittal

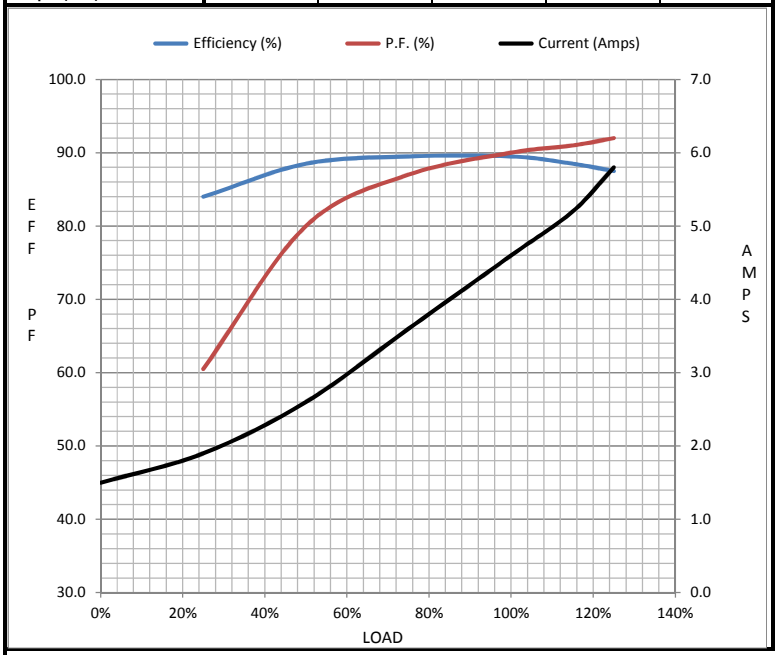
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.90	2.60	3.6	4.6	5.2	5.8	38.0	
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.9	7.5	12.0	
RPM	3600	3580	3565	3545	3520	3,510	3500	0	
Efficiency (%)		84.0	88.5	89.5	89.5	88.5	87.5		
P.F. (%)	9.5	60.5	80.0	87.0	90.0	91.0	92.0	52.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2975	3520	3600
Current (Amps)	38.0	34.0	23.5	4.6	1.50
Torque (ft-lb)	12.0	8.5	20.0	6.0	0.00



Information Block

HP	4.0
Sync. RPM	3600
Frame	100
Enclosure	TEFC
Construction	TFC
Voltage	230/460#200/401V
Frequency	60 Hz
Design	B
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	55 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T06802008 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 20:1
Outline Dwg	SS622236
Conn. Diag	005010.01
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.4820	1.2760	3.9350	2.1270	178.6680

Speed -Torque Curve