

# PRODUCT INFORMATION PACKET

Model No: 100LTFC6577

Catalog No: R420A

Globetrotter® IEC Cast Iron Motor, 2 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 100L Frame, TEFC



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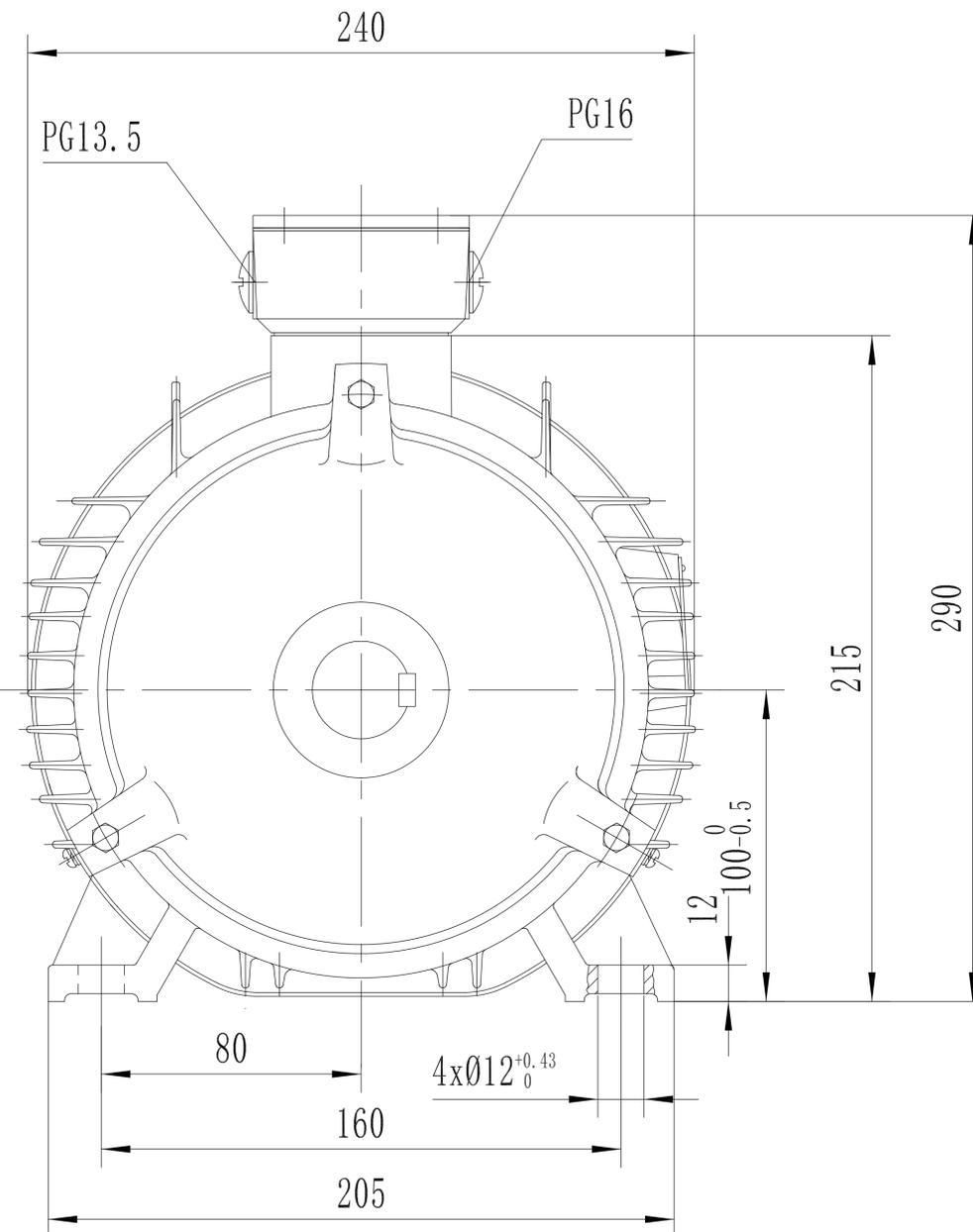
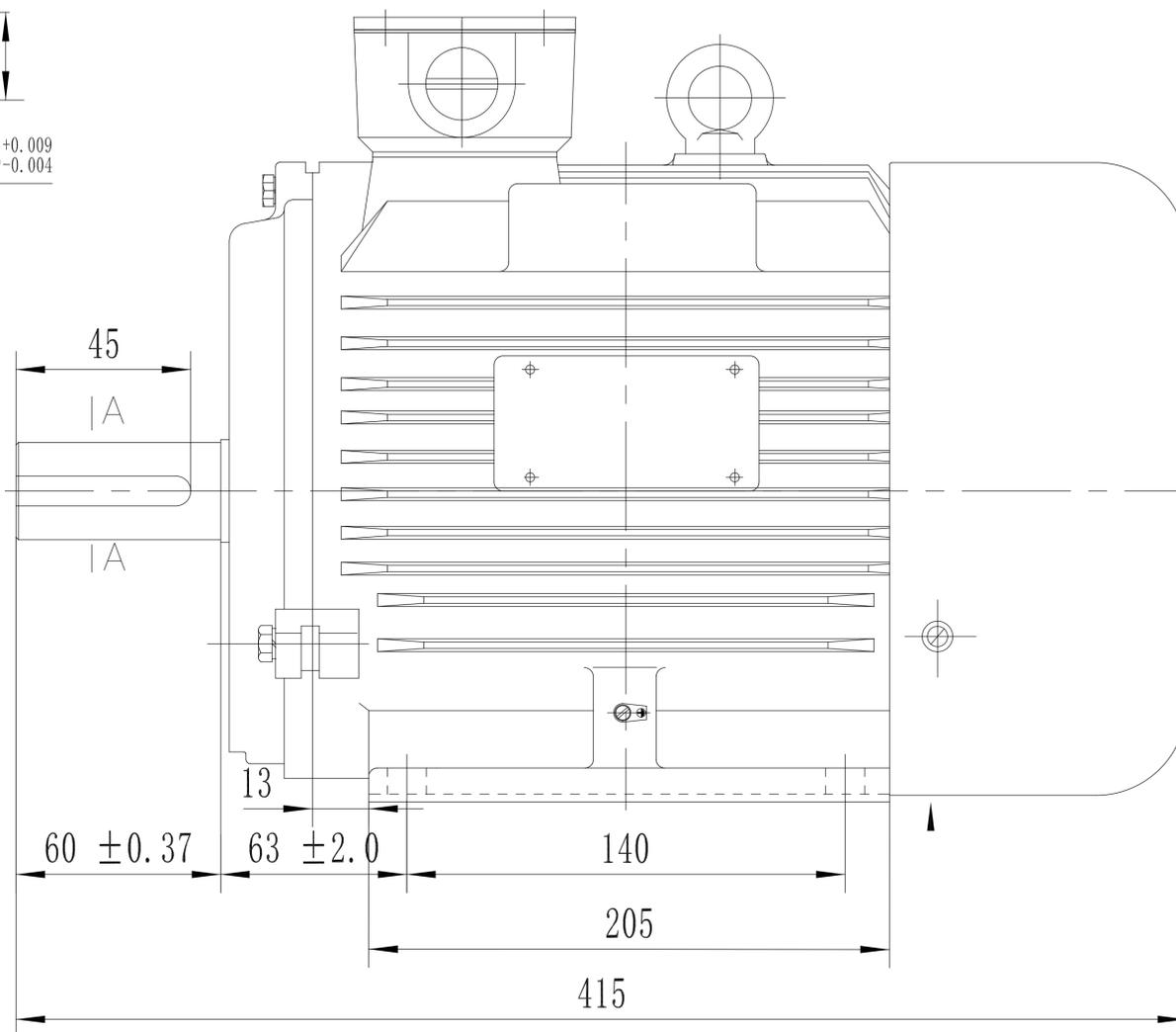
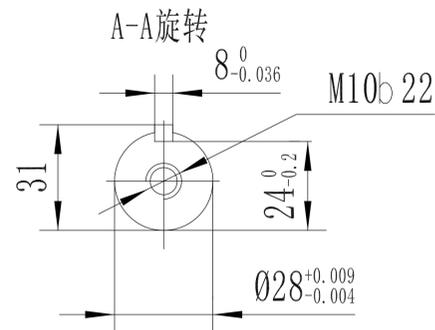
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### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>2 Hp</b>
Output KW	<b>1.5 kW</b>	Voltage	<b>575 V</b>
Speed	<b>1185 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>100L</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>87.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>1.9 A</b>	Power Factor	<b>68</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>K</b>
Drive End Bearing Size	<b>6206</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>4.65 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>IEC</b>	Overall Length	<b>16.33 in</b>
Shaft Diameter	<b>1.111 in</b>	Shaft Extension	<b>2.36 in</b>
Assembly/Box Mounting	<b>F3</b>	Inverter Load	<b>CONSTANT 2:1</b>
Outline Drawing	<b>SS622236-DF100L-6R</b>	Connection Drawing	<b>005102.01</b>

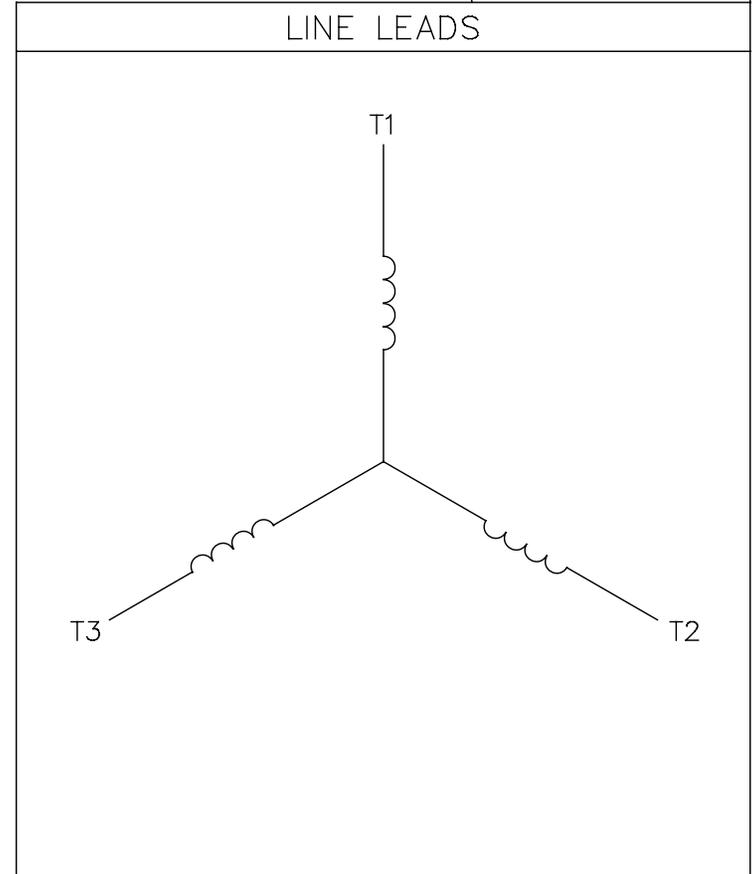
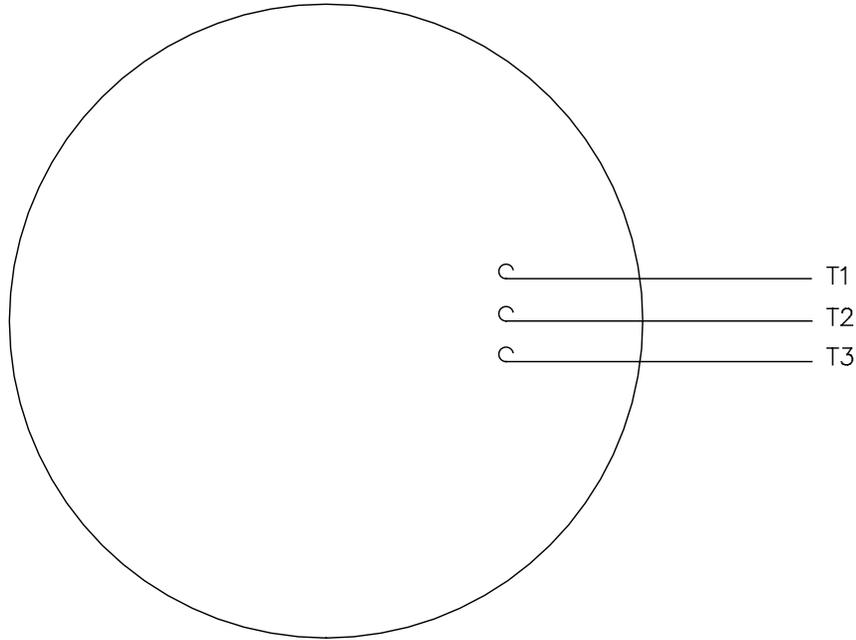


DF100L-2R	193303.60
DF100L1-4R	193301.60
DF100L2-4R	193304.60
DF100L-6R	193300.60
FRAME	PART #

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		TITLE	DRAWN	
					DEC.	INCHES			
					.X	±.1	 Regal-Beloit Corporation OUTLINE	CHK	
					.XX	±.03		APPD	
					.XXX	±.005		SCALE	
					.XXXX	±.0005		REF	
								FMF	
							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	

005102-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CONNECT LEADS AS FOLLOWS  
FOR FOUR CONDUCTOR CORD ( )

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED		<b>Regal Beloit America, Inc.</b>		DRAWN JRW 9/11/75		
				DEC.	INCHES			CHK		
				.X	±.1	TITLE EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR		APPD JCW 9/11/75		
08	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY .XX	±.01	SCALE 1=1					
07	UPDATED TO CURRENT STANDARDS	DBT 5/30/97	.XXX	±.005	MAT'L. DECAL - 004169		REF W-T6343-6			
06	REDRAWN ON CAD; ADDED DECAL NUMBER	SAW 1/24/95	.XXXX	±.0005			FMF 6T17FB7			
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	5/1/02	CAD FILE 00510201		SIZE	DRAWING NO.	REV.
				DIST	BRF-NLV	A	005102-01	08		



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

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

**CUSTOMER:**  
**ORDER #:** \_\_\_\_\_  
**CONN. DIAGRAM:** 005102.01  
**OUTLINE:** SS622236  
**WINDING:** T08706009 NONE 4  
**SPEED:** \_\_\_\_\_

**CUSTOMER P.O. #:** \_\_\_\_\_  
**REFERENCE MODEL #:** 100LTFC6577  
**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	575	1.85	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	12.8	13.5 LB-FT 205%	22.7 LB-FT 344%	35

@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
50 dBA	59 dBA	0.00 LB-FT <sup>2</sup>	0 LB-FT <sup>2</sup>	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	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON
BALL	BALL						
6206	6206						

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
4.216	2.441	14.644	20.191	244.063	0.150	ODE

* N O T E S *	<b>INVERTER TORQUE: CONSTANT 2:1</b> <b>INV. HP SPEED RANGE: 1.5 X BASE SPEED</b>					
	ENCODER: NONE NONE NONE NONE PPR					

<b>PREPARED BY:</b> EARL BABBITTS <b>DATE:</b> 5/5/2017	BRAKE: NONE NONE NONE					
	FT-LB: NA					
	VOLTAGE: NONE <b>HZ:</b>					
<b>UL:</b> Y-(LEESON UL REC)						

FORM: 3531 REV\_4 2/27/06

Data Sheet

Date: 5/5/2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: EARL BABBITTS



100LTC6577

Submittal

Data @ 575 V

Motor Load Data

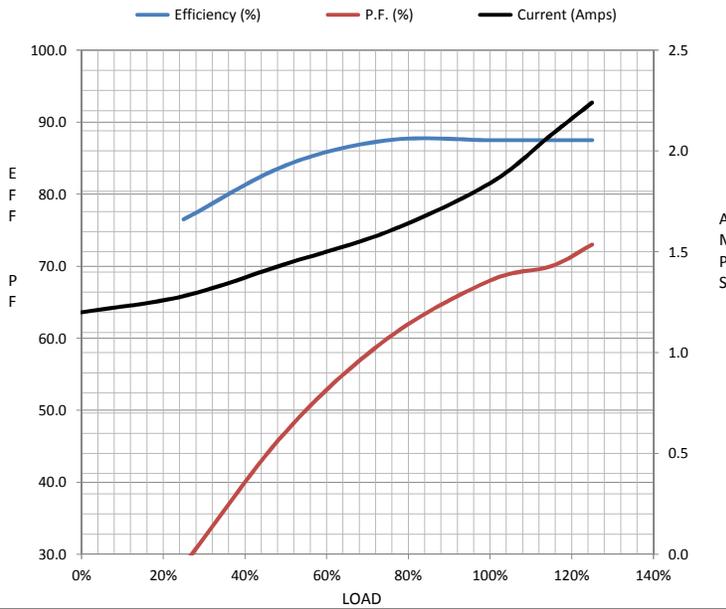
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.20	1.28	1.44	1.60	1.84	2.08	2.24	12.8
Torque (ft-lb)	0.00	1.60	3.3	5.0	6.6	7.6	8.4	13.5
RPM	1200	1196	1192	1188	1185	1,182	1178	0
Efficiency (%)		76.5	84.0	87.5	87.5	87.5	87.5	
P.F. (%)	6.5	28.5	47.0	60.0	68.0	70.0	73.0	42.5

Motor Speed Data

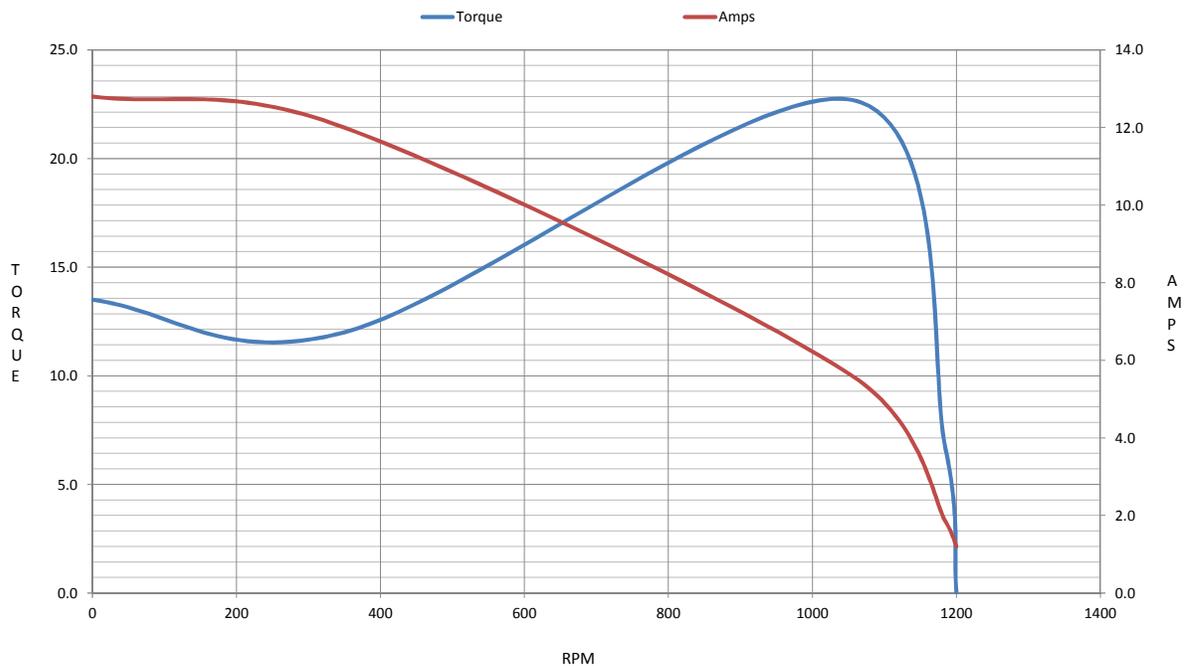
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	350	1055	1185	1200
Current (Amps)	12.8	12.0	5.6	1.84	1.20
Torque (ft-lb)	13.5	12.0	22.7	6.6	0.00

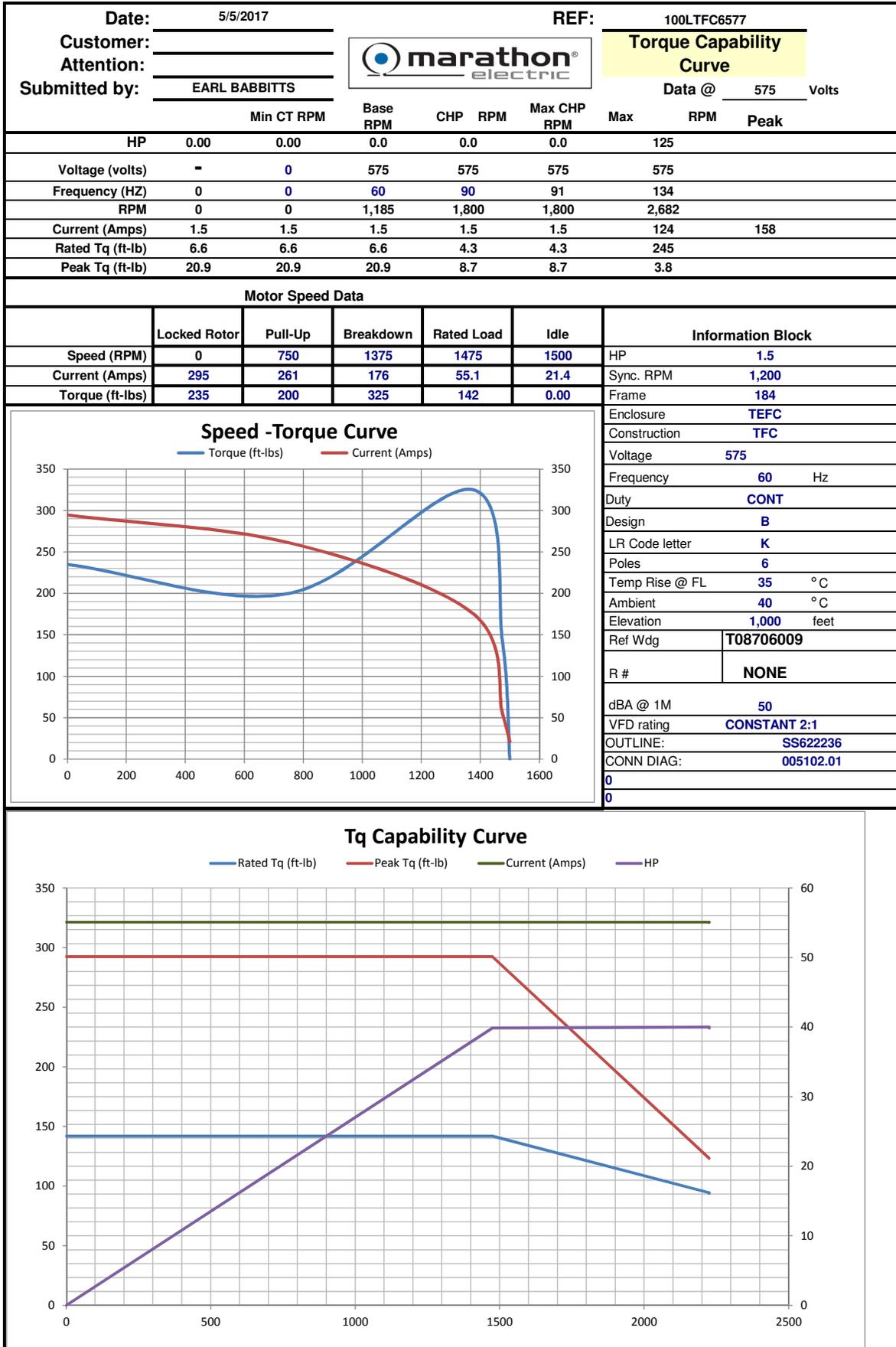
Information Block

HP	1.5			
Sync. RPM	1200			
Frame	184			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 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	005102.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.2160	2.4410	14.6440	20.1910	244.0630



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 : 100LTFC6577

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

Catalog No : R420A

Rework No : N/A

Directives :

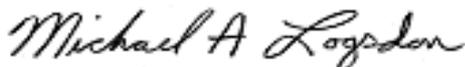
Low Voltage Directive 2014/35/EU

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**