

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTFC6027

Catalog No: GT1073

Globetrotter® General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,
449T Frame, TEFC



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RegalRexnord

Nameplate Specifications

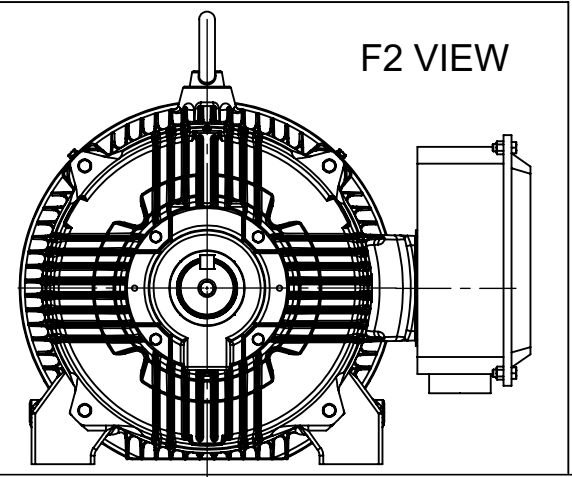
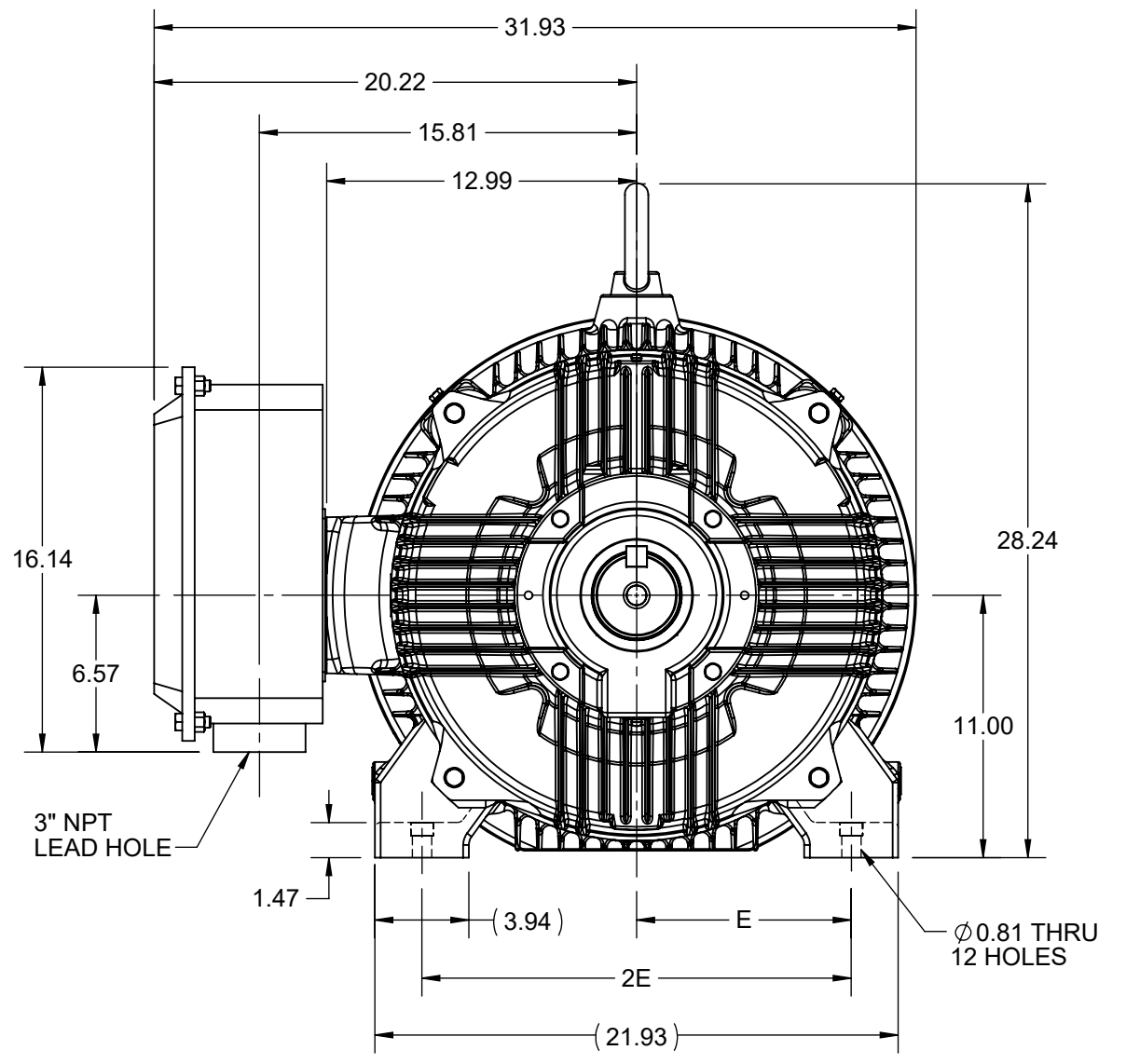
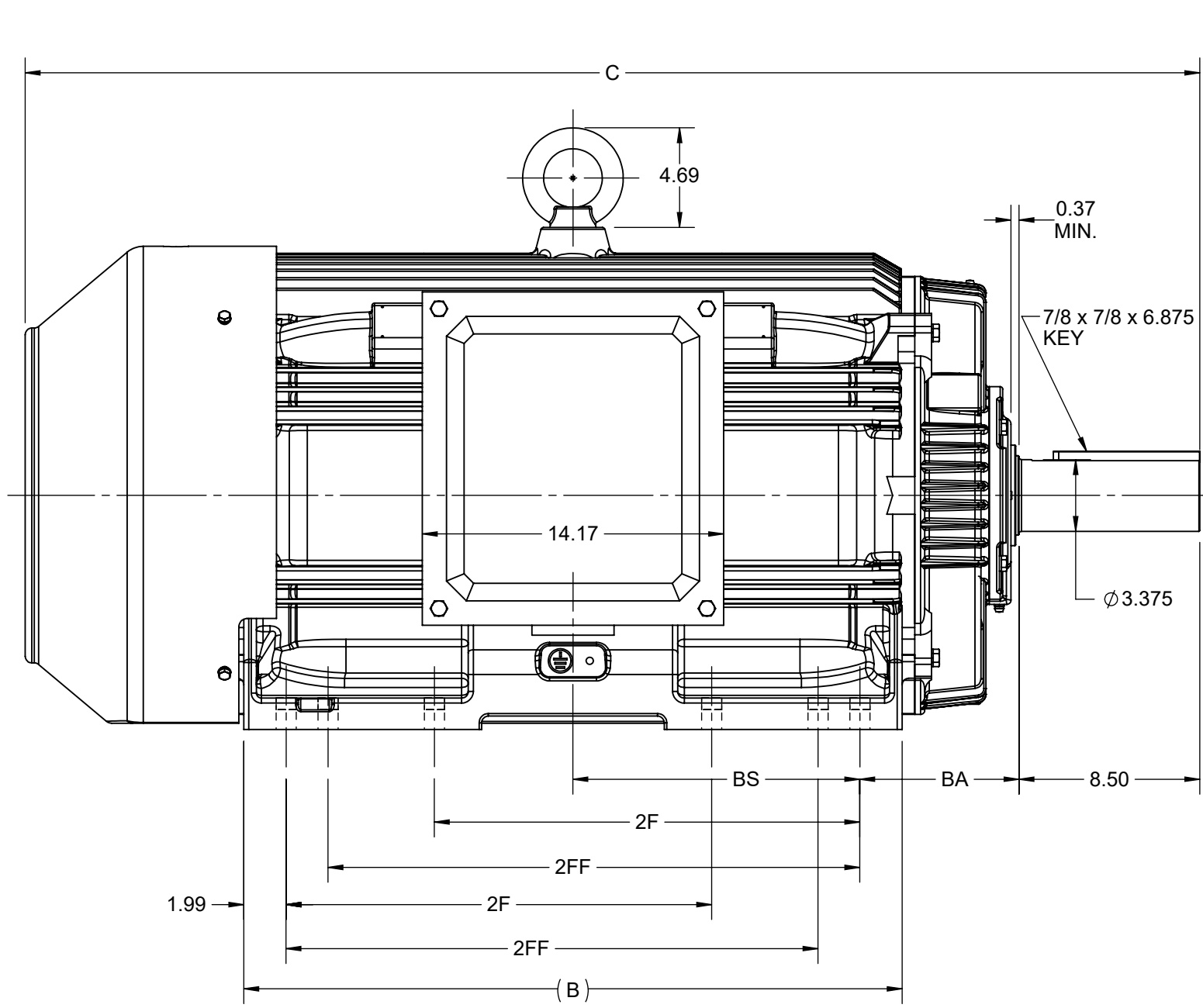
Phase	3	Output HP	300 & 250 Hp
Output KW	224.0 & 187.0 kW	Voltage	460 & 380 V
Speed	1790 & 1488 rpm	Service Factor	1.15 & 1.15
Frame	449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 95.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	332 & 331 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Listed	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.013 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	3.375 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS557013	Connection Drawing	EE7341C

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4			3			2			1		
B	C	E	2E	2F	2FF	BA	BS	MOUNTING			
30.94	55.21	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2			



DRAWING REVISION D	REVISION BY BISWA	REV DATE/© DATE 13/01/2021
ECO CR-0000557	APPROVED BY GNK	DATE 13/01/2021
ECO DESCRIPTION DRAWING UPDATED		
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DRAWN BY NIV	REGAL ® Regal Beloit America, Inc.
DATE 23/05/2016	
APPROVED BY SBD	DESCRIPTION OUTLINE 447/449T FR-TEFC
DATE 23/05/2016	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER SS557013
	SHEET 1 OF 1

EE7341C

THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7-T8-T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7-T8,T8-T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

				TOLERANCES UNLESS SPECIFIED		DRAWN BLR 03-09-1998	
				DEC.	INCHES	CHK ML 03-23-1998	
				.X	± -	APPD GK 03-23-1998	
				.XX	± -	SCALE 1=1	
				.XXX	± -	TITLE CONNECTION DIAGRAM	
				EMH .XXXX	± -	3φ - 6 LEADS	
				CHK ANG	± -	REF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
E	NOTE ADDED FOR 2 T'S	NAR 17-12-2020	RC	.XXX	± -	FMP	
D	RE-DRAWN WITH REGAL LOGO ECO-0110493	WGJ 09-30-2016	EMH	.XXXX	± -	FMF	
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 EE7341C		SIZE	DRAWING NO. PAGE OF REV.
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P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
 ORDER #:
 CONN. DIAGRAM: EE7341C
 OUTLINE: S557013
 WINDING: HA32804030 NONE 1
 SPEED: _____

CUSTOMER P.O. #:
 REFERENCE MODEL #: 449TTFCD6027
 CAT #: GT1073
 CUSTOMER PART #:
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	1800	1790	447/449T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	332&343	PWS OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	3/4 LD EFF	1/2 LD EFF	GTD EFF	ELECT. TYPE
96.2	96.2	95.4	95.8	SQ CAGE INV RATED
F.L. PF 88.5	3/4 LD PF 86.5	1/2 LD PF 80.5		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
880 LB-FT	2.200	1,950 LB-FT	3,000 LB-FT	341%
		222%		90

SOUND PRESSURE @ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
80 dBA	89 dBA	15.10 LB-FT ²	250 LB-FT ²	25 SEC.	2	2680	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	DIVISION 2 T2B	YES	NONE	BLUE (ENAMEL)

DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6317						

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
0.008	0.005	0.05	0.124	2.765	0.150	NONE

NOTES	INVERTER TORQUE: CONSTANT 2.1/VARIABLE 10:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE PPR					

PREPARED BY:	DATE: 10/5/2021				
BRAKE: NONE					HZ:
FT-LB: NA					
VOLTAGE: NONE					
UL: NO LETTER - ME, WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED					

FORM: 3531 REV. 4 2/27/06

Data Sheet

Date: 10/5/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



449TTFCD6027

Submittal

Data @ 460 V

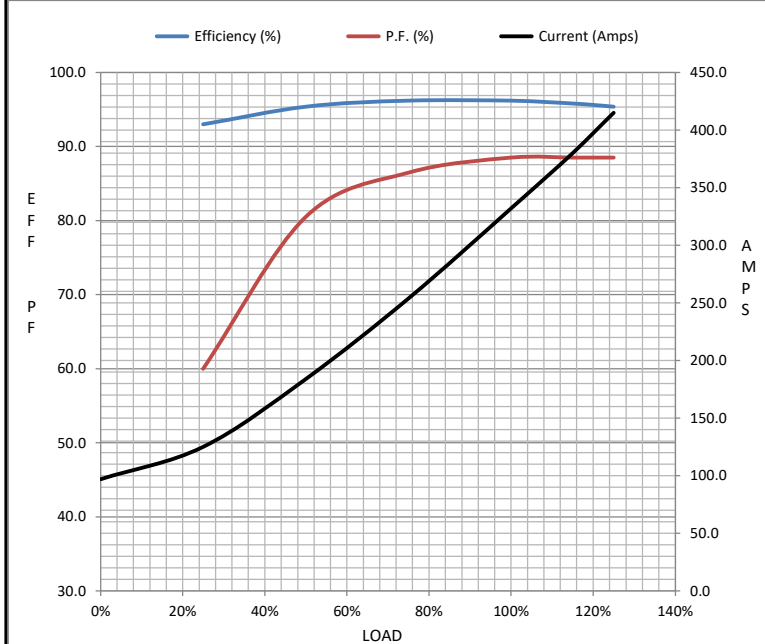
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	97.0	125	184	254	332	380	415	2,200
Torque (ft-lb)	0.00	220	438	660	880	1,013	1,100	1,950
RPM	1800	1798	1795	1793	1790	1,788	1787	0
Efficiency (%)		93.0	95.4	96.2	96.2	95.8	95.4	
P.F. (%)	5.5	60.0	80.5	86.5	88.5	88.5	88.5	41.0

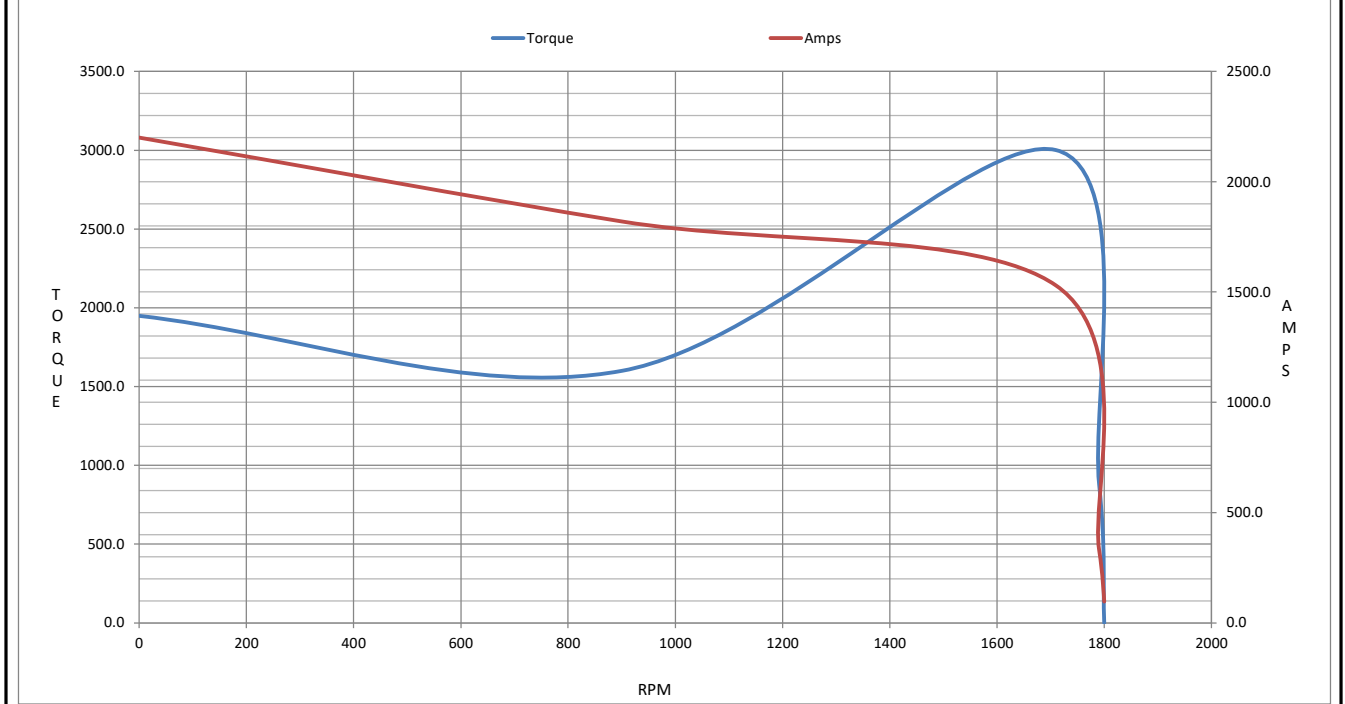
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1710	1790	1800
Current (Amps)	2,200	1,820	1,530	332	97.0
Torque (ft-lb)	1,950	1,600	3,000	880	0.00

Information Block				
HP	300.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.0			
Temp Rise @ FL	90 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	15.1 Lb-F ²			
Ref Wdg	HA32804030 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 2:1/VARIABLE 10:1			
Outline Dwg	SS557013			
Conn. Diag	EE7341C			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0080	0.0050	0.0500	0.1240	2.7650



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 : 449TTFC6027

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

Catalog No : GT1073

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

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