

# PRODUCT INFORMATION PACKET



Model No: 145TTFR6040

Catalog No: 145TTFR6040

Globetrotter® General Purpose Motor, 2 & 1.5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 145TC Frame, TEFC



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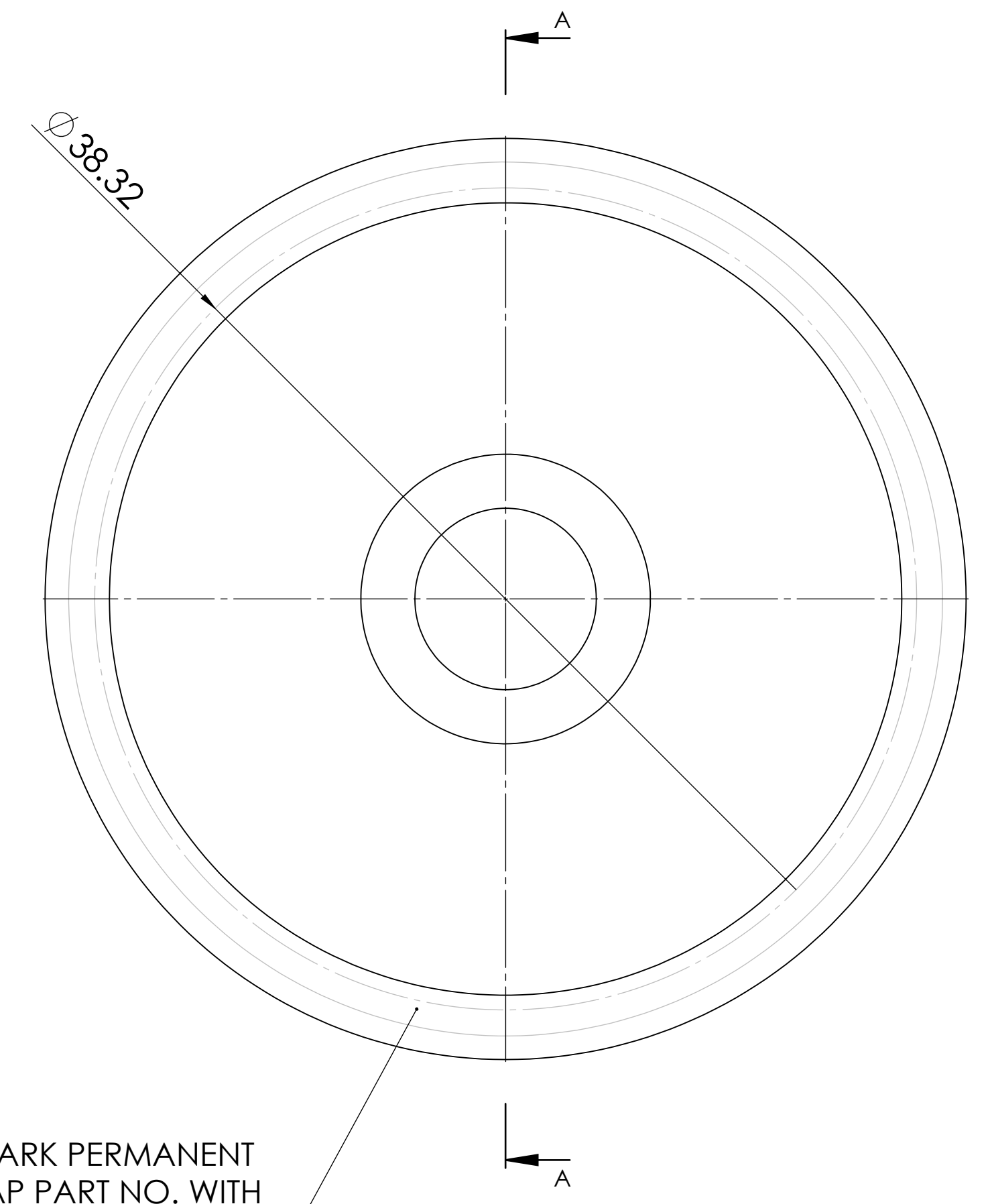
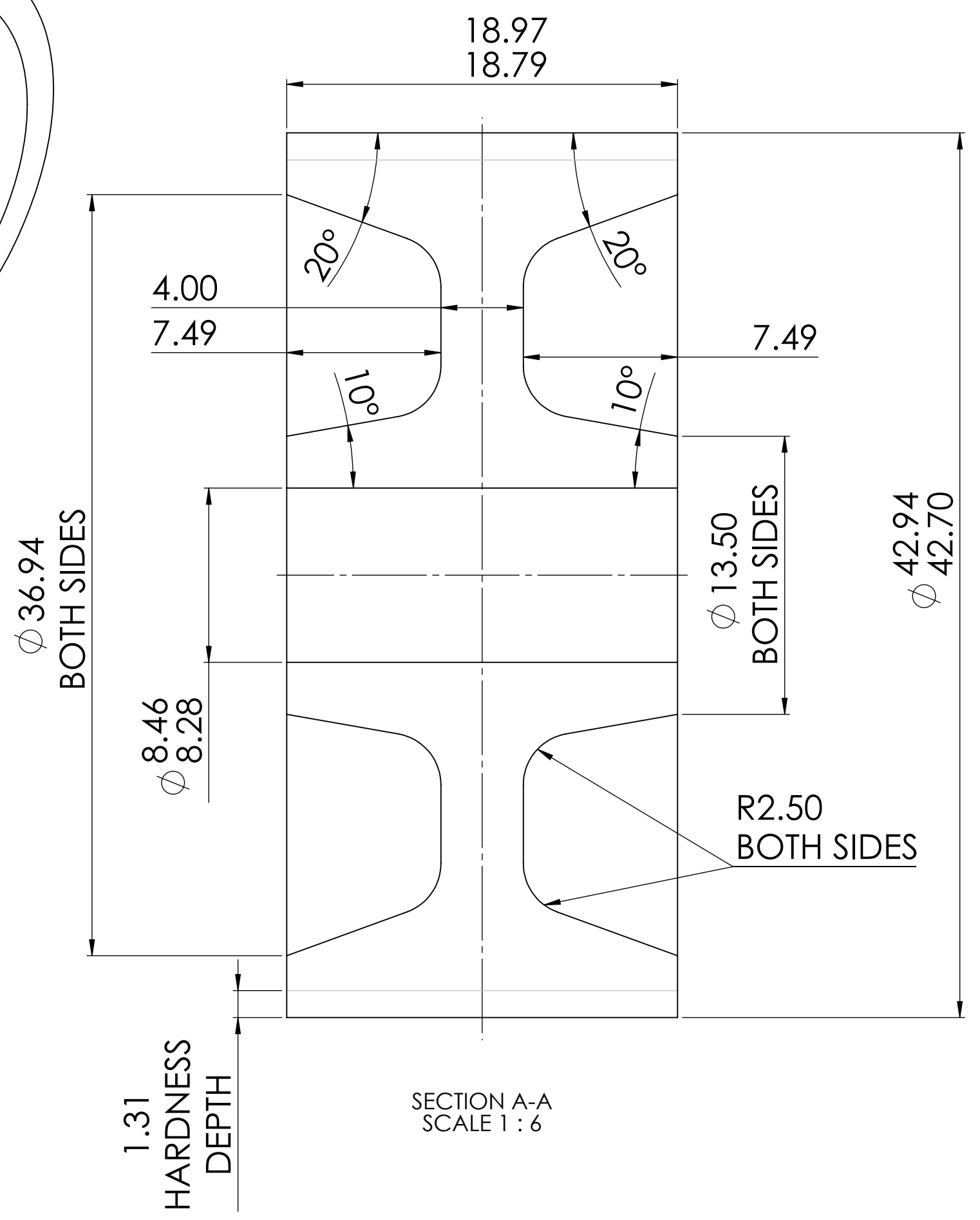
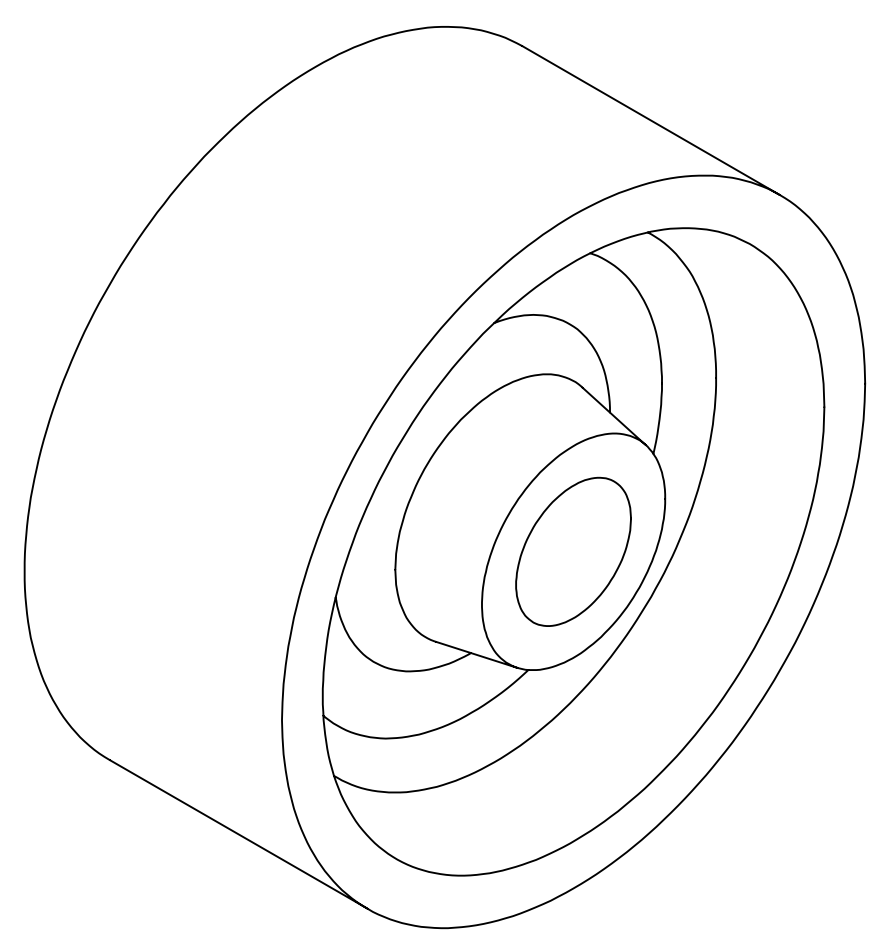
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>2 &amp; 1.50 Hp</b>
Output KW	<b>1.5 &amp; 1.1 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1760 &amp; 1460 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>145TC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>86.5 &amp; 85.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>6/3 &amp; 5.8/2.9 A</b>	Power Factor	<b>71</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>A</b>	KVA Code	<b>N</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</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 Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>6.58 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>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>14.87 in</b>
Frame Length	<b>9.56 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>2.12 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>A-EE7308</b>	Outline Drawing	<b>A-108606-956</b>

		PART NAME	RGH. PART NO.	MATERIAL	HEAT TREATMENT	RGH. WT.	FIN. WT.
		FORGING - GEAR MAIN 3.958 RATIO		FMS 2.255 - MODIFIED 4350 GRADE	310-350 HBW		7,440LB



MARK PERMANENT  
SAP PART NO. WITH  
0.06 TO 0.50  
HIGH CHARACTERS

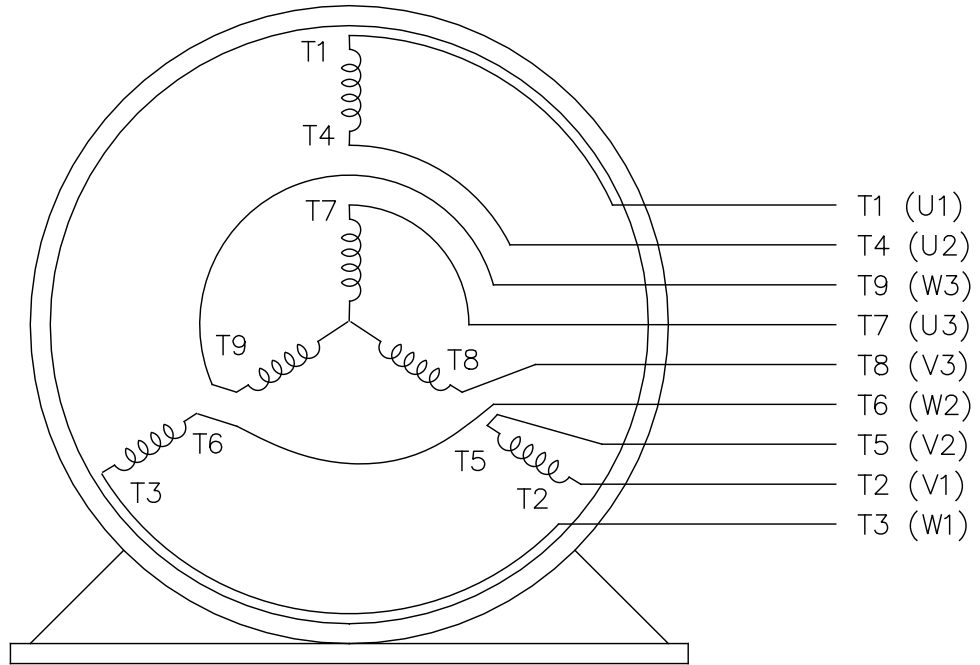
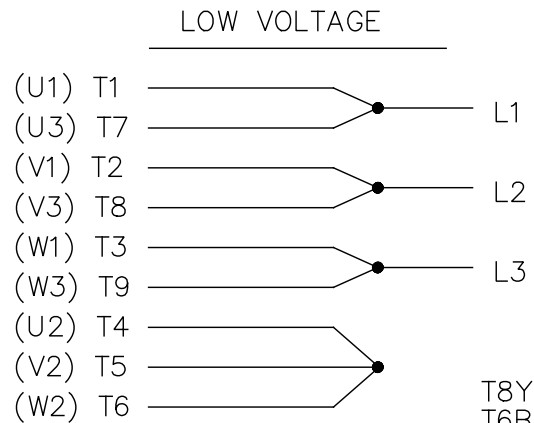
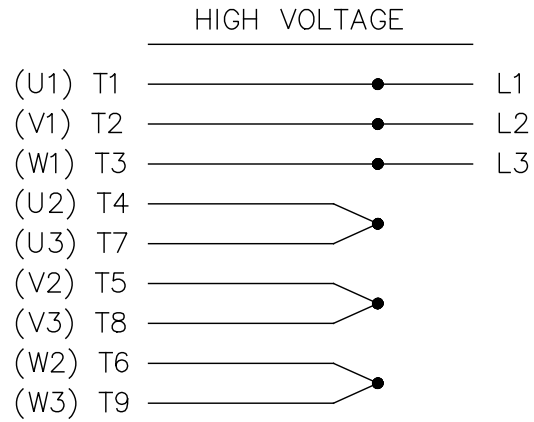
NOTES;

- ABS TEST AND INSPECTION REQUIRED PER 2114085.
- FORGING TO BE FURNISHED IN ACCORDANCE WITH FMS 2.005.
- FORGING TO BE ROUGH MACHINED TO  $\sqrt{250}$  MAXIMUM AND HEAT TREATED.
- FORGING TO BE "UT" INSPECTED PER QCIP 45.7, BACK REFLECTION ZONE DIAMETER = 38.32 INCHES.
- FORGER TO PROVIDE CHEMISTRY AND MECHANICAL PROPERTIES.
- HEAT TREATMENT TO COMPLY WITH FPS 8.000 WITH SPECIFIED DRAWING HARDNESS AT DEPTH SHOWN.

FOR CAST VERSION SEE 10123507

-TOLERANCE TABLE- UNLESS OTHERWISE SPECIFIED APPLIES TO MACHINED SURFACES ONLY		DESIGNER C.TRAUB	<b>REXNORD INDUSTRIES, LLC</b> www.rexnord.com
		ENGINEER C.TRAUB	
1 PL DEC.=±.060	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	MFG./PUR.	<small>ALL DRAWINGS ARE PROPERTY OF REXNORD INDUSTRIES LLC AND MAY NOT BE REPRODUCED, UTILIZED OR DISCLOSED FOR ANY PURPOSE EXCEPT AS AUTHORIZED IN WRITING BY REXNORD INDUSTRIES LLC. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE ARE SUBJECT TO THE UNITED STATES EXPORT REGULATIONS. DIVERSION CONTRARY TO U.S. LAW AND OTHER RELEVANT EXPORT CONTROLS IS PROHIBITED. IT IS SUBJECT TO RETURN UPON DEMAND.</small>
2 PL DEC.=±.030		DATE 12/14/2021	
3 PL DEC.=±.010	SYM CHKD DATE	TITLE: FORGING - GEAR MAIN 3.958 RATIO	UNIT: 16 MR MARINE GEAR DRIVE
ANGLES =±1°	SOLIDWORKS DRAWING DO NOT CHANGE MANUALLY	SIMILAR TO	SCALE: 1:10
		DWG. NO. 10860654	SHT. 1 OF 1
		REV.	CLASSIFICATION=

THREE PHASE  
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G  
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD  
CONNECTION

L1 WHITE  
L2 RED  
L3 BLACK

DRAWING REVISION	REVISION BY	DATE
ECO	APPROVED BY	DATE
ECO DESCRIPTION NEW DRAWING		
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TOLERANCES UNLESS OTHERWISE SPECIFIED			
DEC.	mm	INCH	ANGLE
.X	±2.5	±0.11	±0.5°
.XX	±0.51	±0.021	
.XXX	±0.127	±0.0051	
.XXXX	±0.0127	±0.00051	
REMOVE BURRS & BREAK SHARP EDGES .08/.38 [003/.015]X 45°			
CORNER FILLETS R.51 [02]			
MACHINED SURFACES INCH $\sqrt[125]{mm}$ $\sqrt[3.2]{}$			
INCH SHOWN IN [BRACKETS]			

DRAWN BY: AS
DATE: 02/20/2017
APPROVED BY: ST
DATE: 02/20/2017
REFERENCE EE7308
THIRD ANGLE PROJECTION

<b>Trans-Power</b>	
DESCRIPTION CONNECTION DIAGRA 3 PHASE - UAL VOLTAGE	
MATERIAL	PROCESS/FINISH
SIZE DWG NO A EE7308TP	SHEET 1

**CERTIFICATION DATA SHEET**

**Model#:** 145TTFR6040 AA  
**CONN. DIAGRAM:** A-EE7308  
**OUTLINE:** A-100106-956

**WINDING#:** ZT4255 FR 3  
**ASSEMBLY:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2&1 1/2	1.49&1.12	1800	1760&1460	145TC	TEFC	N	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	6/3&5.8/2.9	ACROSS THE LINE	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71&70	3/4 LOAD PF: 62	1/2 LOAD PF: 49	84	SQ CAGE IND RUN	3.8 / 1.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	61 / 30.5	24.5 LB-FT 408	33.2 LB-FT 553	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.14 LB-FT^2	12 LB-FT^2	15 SEC.	2	65 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

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  
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E  
S  
\*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: PROVISIONS FOR KIT NONE
STEARNS P/N NONE
56,000 NONE
10 FT-LB NONE V NONE Hz

DATE: 06/23/2017 07:49:50 AM  
 FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

Data Sheet

Date: 12/13/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



145TTFR6040

Submittal

Data @ 460 V

Motor Load Data

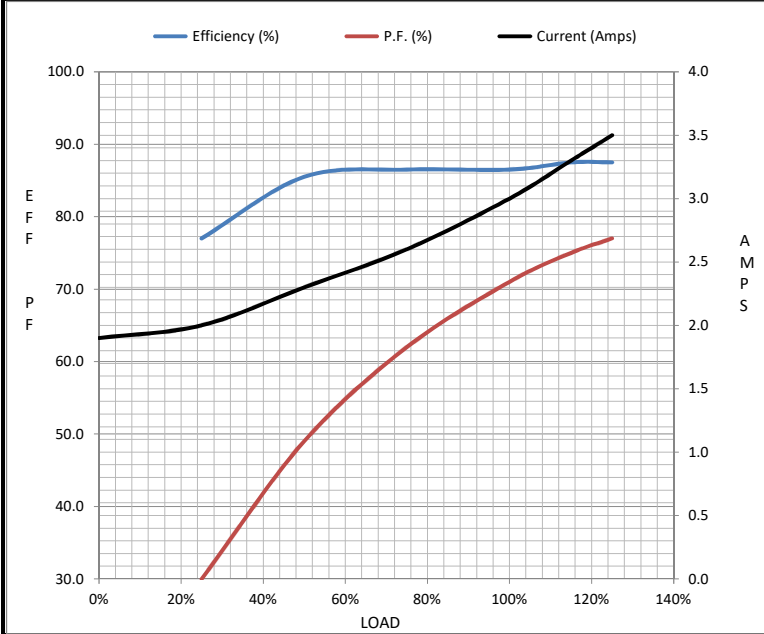
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.90	2.00	2.30	2.60	3.0	3.3	3.5	30.5
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.9	7.5	24.5
RPM	1800	1790	1780	1770	1760	1,755	1750	0
Efficiency (%)		77.0	85.5	86.5	86.5	87.5	87.5	
P.F. (%)	7.0	30.0	49.0	62.0	71.0	75.0	77.0	71.0

Motor Speed Data

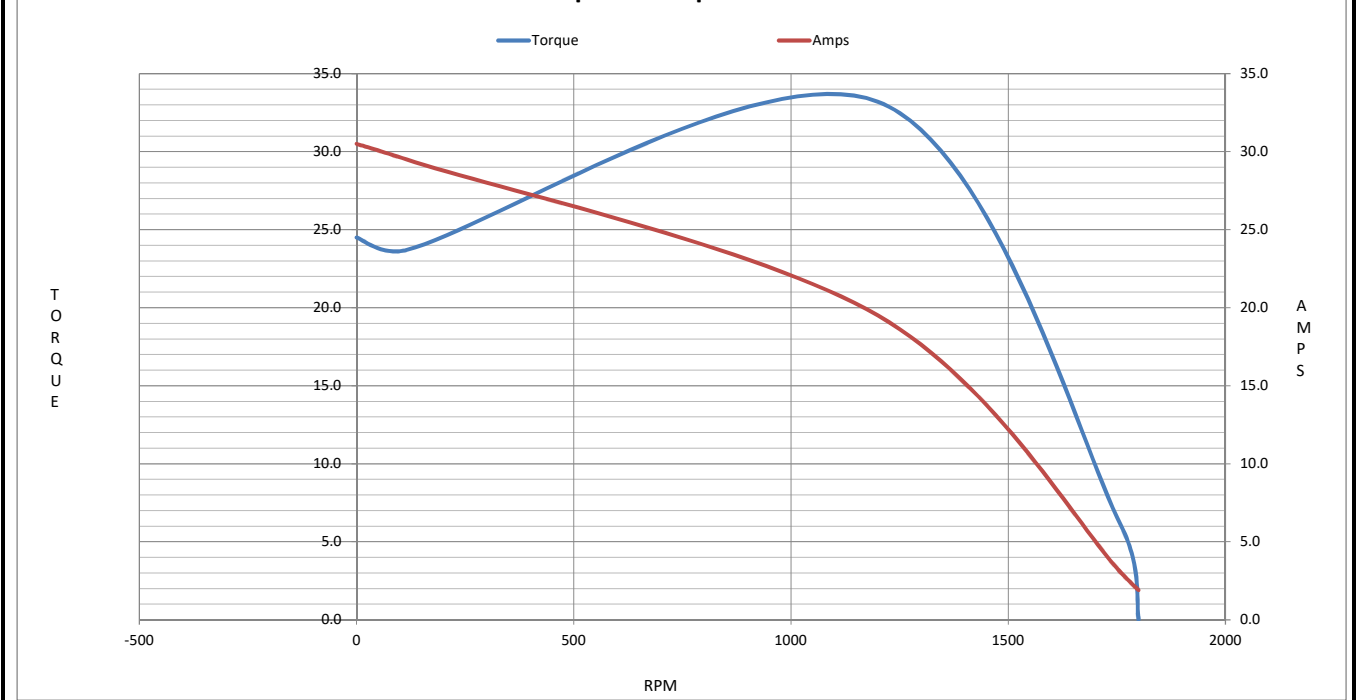
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1200	1760	1800
Current (Amps)	30.5	29.5	19.5	3.0	1.90
Torque (ft-lb)	24.5	23.7	33.2	6.0	0.00

Information Block

HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.14 Lb-Ft <sup>2</sup>			
Ref Wdg	ZT4255 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	A-100106-956			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.9620	3.0100	5.7510	5.9360	160.3460



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 : 145TTFR6040

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

Catalog No : GT1207

Rework No : N/A

Directives :

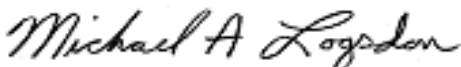
Low Voltage Directive 2014/35/EU

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**