

PRODUCT INFORMATION PACKET

Model No: 445TSTFCD6036

Catalog No: GT1065

General Purpose Motor, 150 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 445TS Frame, TEFC



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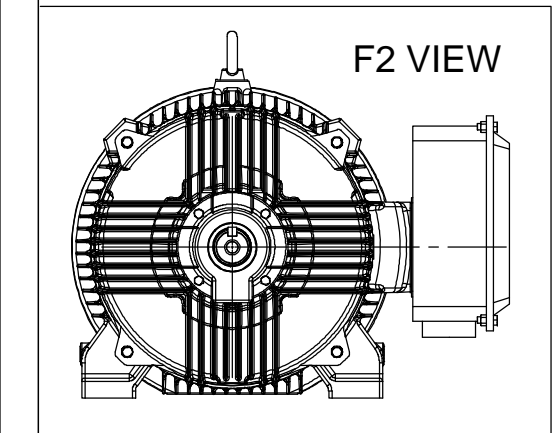
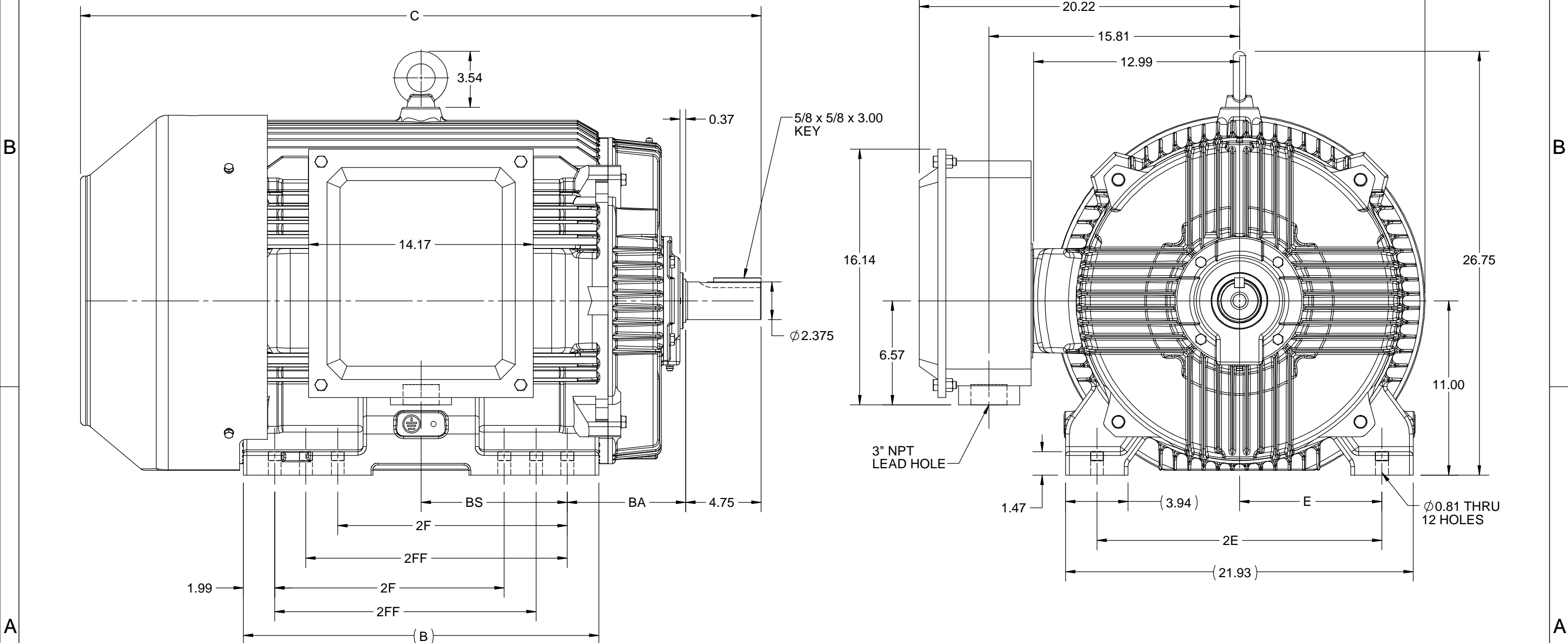
Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	169.0 A	Speed	1790 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Listed	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

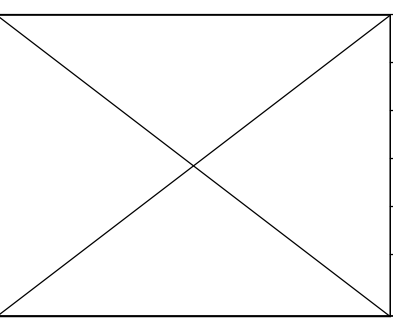
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0294 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	42.96 in
Frame Length	23.62 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	SS557008	Connection Drawing	EE7341C

4			3					2	1
B	C	E	2E	2F	2FF	BA	BS	MOUNTING	
22.44	42.96	9.00	18.00	14.50	16.50	7.50	9.23	F1 OR F2	



DRAWING REVISION E	REVISION BY BISWA	DATE 30/11/2020
ECO ECO-0195277	APPROVED BY GNK	DATE 30/11/2020
ECO DESCRIPTION		
DRAWING UPDATED		
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DRAWN BY NIV	Regal Beloit America, Inc.
DATE 29/03/2015	
APPROVED BY SBD	DESCRIPTION OUTLINE 444/445TS FR-TEFC
DATE 29/03/2015	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER SS557008
	SHEET 1 OF 1

EE7341C

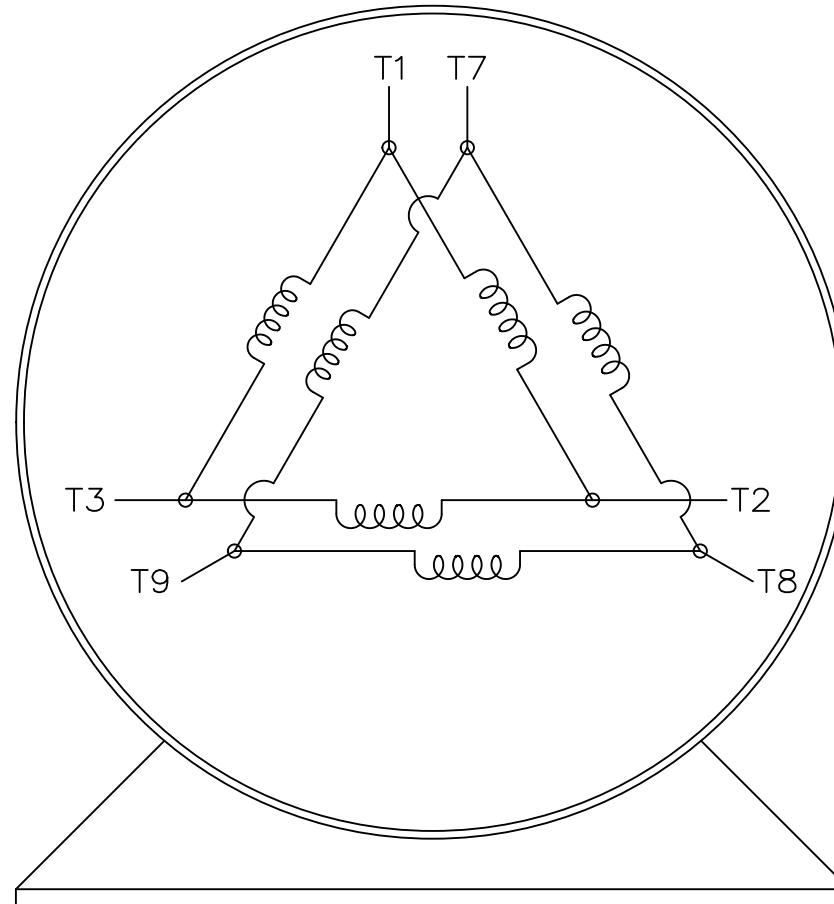
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

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

CERTIFICATION DATA SHEET

CUSTOMER:

CUSTOMER PO#:

ORDER #:

MODEL #: 445TSTFCD6036 AA

CONN. DIAGRAM: EE7341C

CUSTOMER PART

#:

OUTLINE: SS557008

MOUNTING: F1/F2 CAPABLE

WINDING #: HE32804011 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93.0	1800	1790&1490	445TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	169&169	PWS OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:	95.8&95.8	3/4 LOAD EFF:	95.8	1/2 LOAD EFF:	95.4	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	87&87.5	3/4 LOAD PF:	84.5	1/2 LOAD PF:	77	95.4		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
440 LB-FT	1085	926 LB-FT 210 %	1232 LB-FT 280 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	80 LB-FT^2	1000 LB-FT^2	25 SEC.	2	3025 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	DIVISION 2 T2B	FALSE	NONE	BLUE (ENAMEL)

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

* N O T E S *	INVERTER TORQUE: CONSTANT 20:1/VARIABLE 20:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

PREPARED BY: Fareeda Dudekula
DATE: 05/04/2018 07:40:38 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

460

Volts

HP 150&125

PHASE 3

Model No 445TSTFC6036

60

HZ

VOLTS 460&380

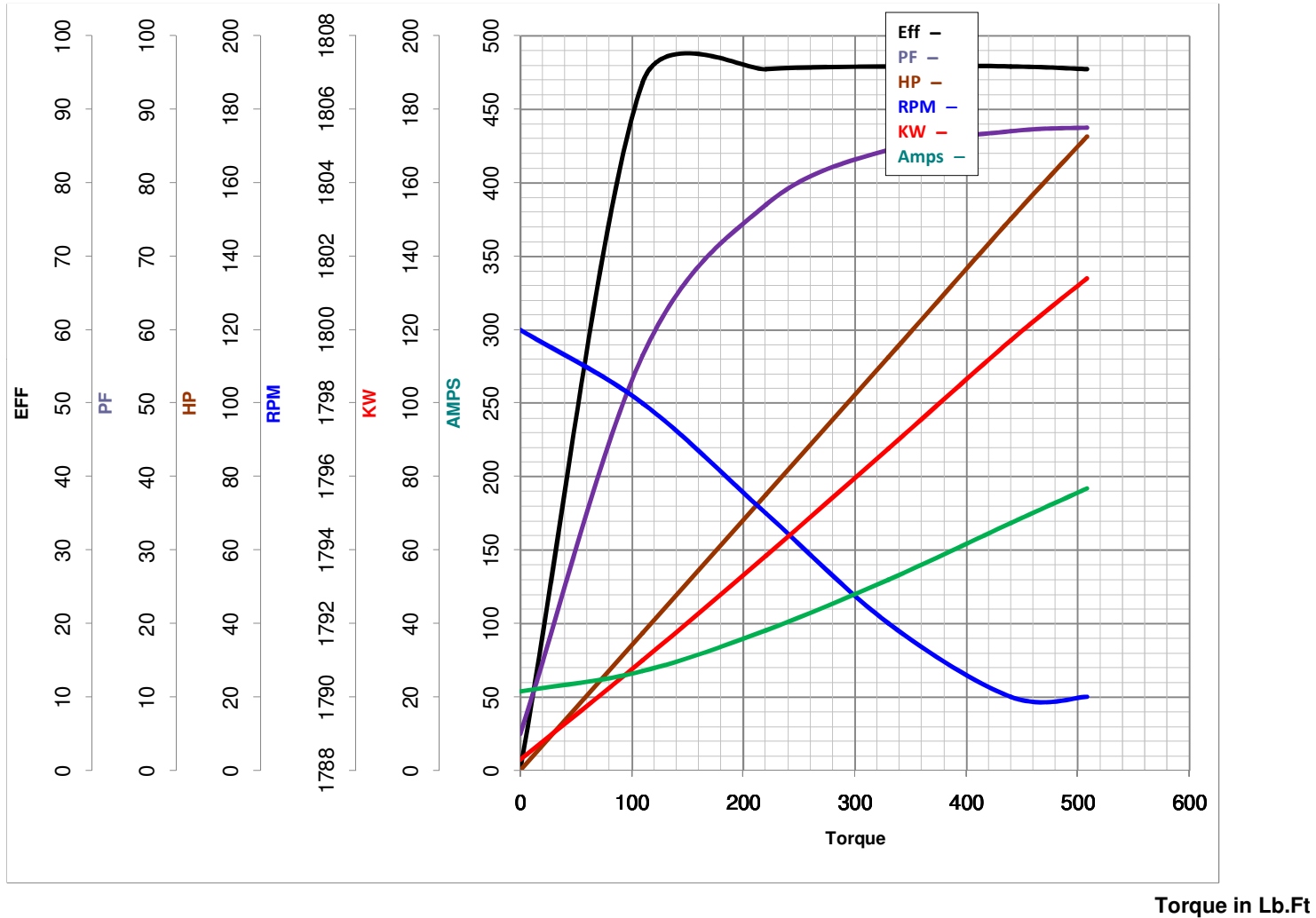
Catalog No GT1065

150

HP

HZ 60&50

RPM 1790&1490



FL TORQUE 440 Lb.Ft
 BD TORQUE 1232 Lb.Ft
 LR TORQUE 926 Lb.Ft

FL AMPS 169
 PU TORQUE 780.0 Lb.Ft
 LR AMPS 1085

WINDING HE32804011-1 Prepared By FAREEDA

Date 5/4/2018

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 : 445TSTFCD6036

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

Catalog No : GT1065

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