

# PRODUCT INFORMATION PACKET

Model No: 445TSTFCD6036  
Catalog No: GT1065  
150,1800,TEFC,445TS,3/60/460  
Totally Enclosed Fan Cooled (TEFC)



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### Nameplate Specifications

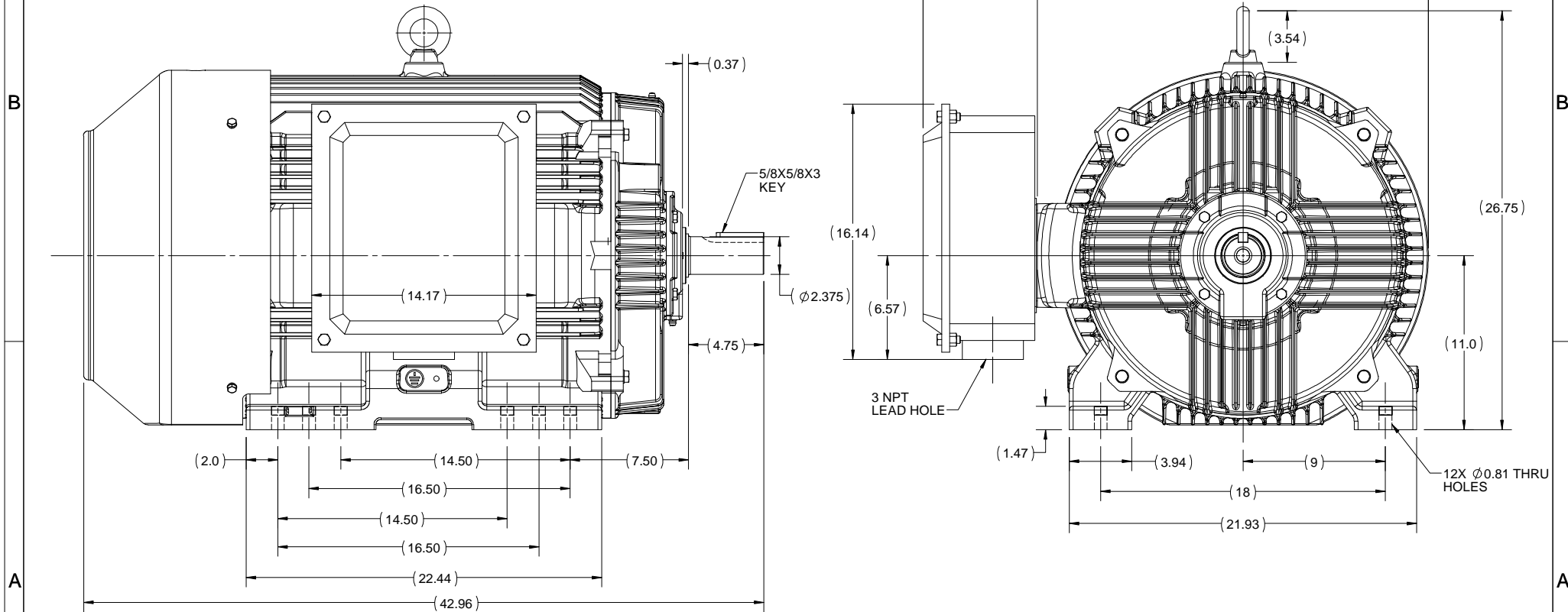
Output HP	<b>150 Hp</b>	Output KW	<b>112.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>169.0 A</b>	Speed	<b>1790 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>95.8 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>445TS</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6319</b>
Opp Drive End Bearing Size	<b>6317</b>	UL	<b>Listed</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>55</b>		

### Technical Specifications


Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Part Wdg Start Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</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>TS</b>
Frame Length	<b>23.62 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>4.75 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS557008</b>	Connection Diagram	<b>EE7341C</b>

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# OUTLINE



DRAWING REVISION C	REVISION BY GNK	DATE 04/05/2018
ECO ECO-0143704	APPROVED BY SBD	DATE 04/05/2018
ECO DESCRIPTION DRAWING UPDATED		
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DRAWN BY NIV	 Regal Beloit America, Inc.
DATE 29/03/2015	
APPROVED BY SBD	DESCRIPTION <b>OUTLINE</b> 444/445TS FR-TEFC
DATE 29/03/2015	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER <b>SS557008</b>
	SHEET 1 OF 1

EE7341C

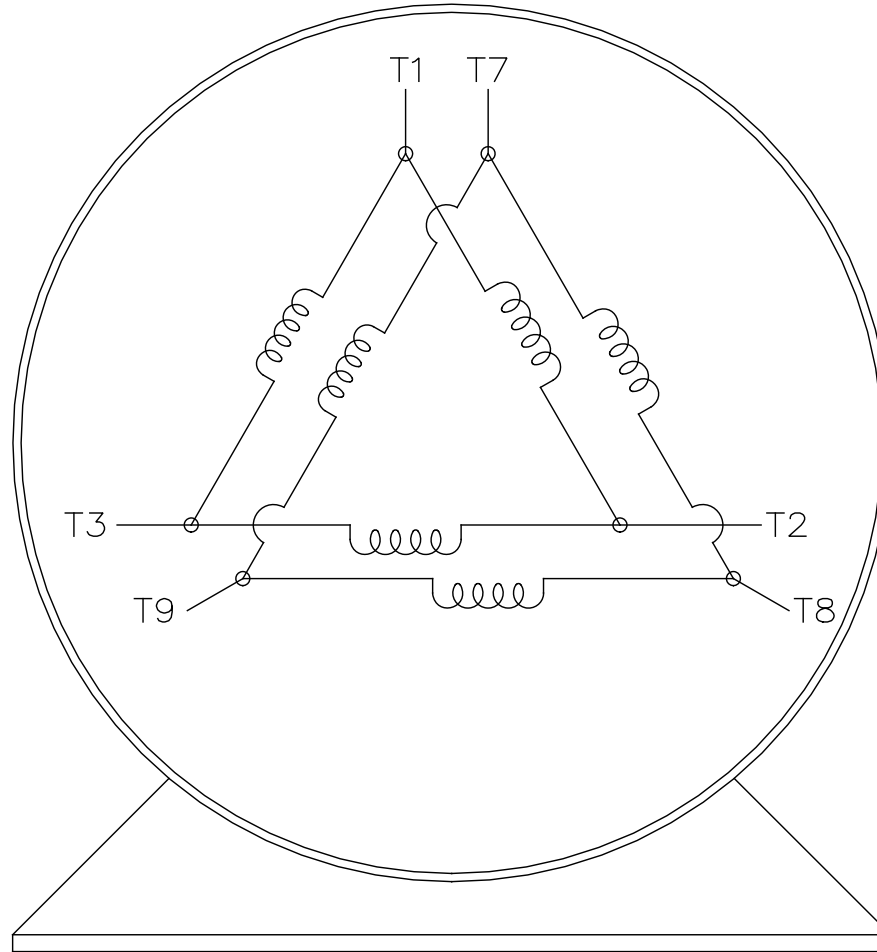
THREE PHASE – PART WINDING START  
DELTA – 6 LEADS

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

				TOLERANCES UNLESS SPECIFIED		 <b>REGAL - BELOIT CORPORATION</b>	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	REF
						3Ø - 6 LEADS	FMF
D	RE-DRAWN WITH REGAL LOGO	ECO-0110493	WGJ 09-30-2016	EMH	.XXXX	MAT'L.	PREV
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	
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
						DIST	SIZE A
							DRAWING NO. EE7341C
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							REV. D



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

**CERTIFICATION DATA SHEET**

**CUSTOMER PO #:**  
**MODEL #:** 445TSTFCD6036 AA  
**CUSTOMER PART #:**  
**MOUNTING:** F1/F2 CAPABLE

**ORDER #:** EE7341C  
**CONN. DIAGRAM:** EE7341C  
**OUTLINE:** SSS57008  
**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&8380	169&169	PWS OR INVERTER	CONTINUOUS	F7	1.15/1.15	40

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

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

<b>SOUND PRESSURE @ 3 FT.</b>	<b>SOUND POWER</b>	<b>ROTOR WK^2</b>	<b>MAX. WK^2</b>	<b>SAFE STALL TIME</b>	<b>STARTS / HOUR</b>	<b>APPROX. MOTOR WGT</b>
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				FALSE	NONE	NONE	VOLTS
NONE	NOT	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

**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

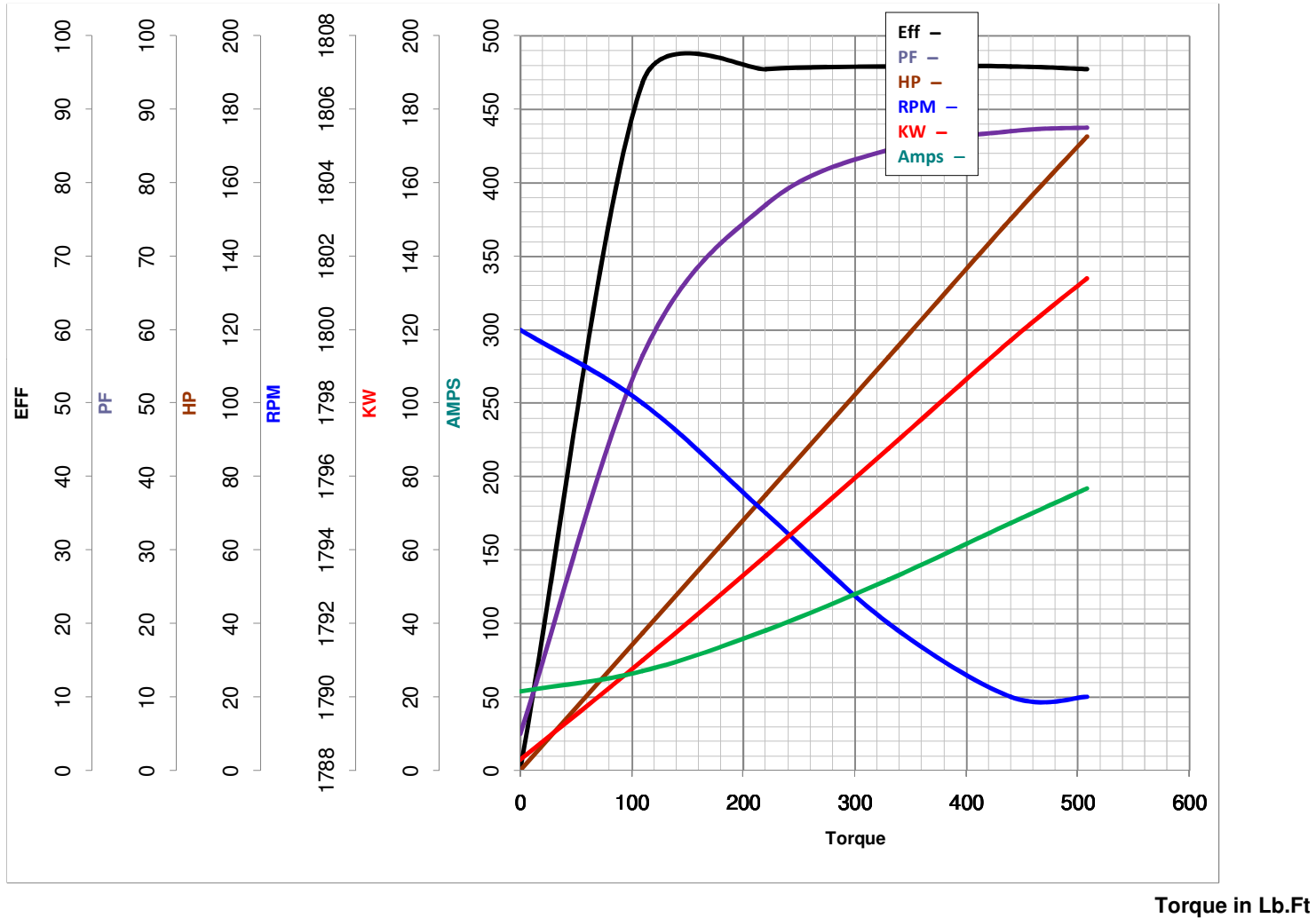
150

HP

Catalog No GT1065

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