

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445THFCD9040

Catalog No: W112-P

XRI®-841 Severe Duty Motor, 150 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 445TCV Frame, TEFC



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RegalRexnord

Nameplate Specifications

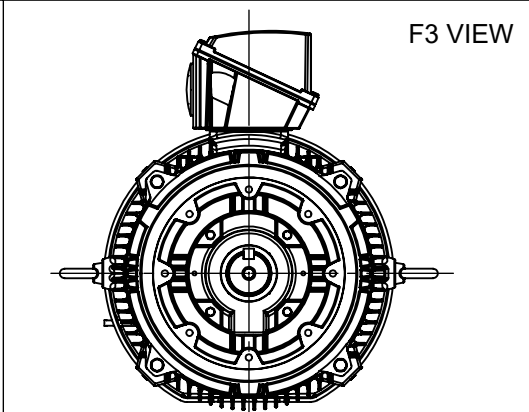
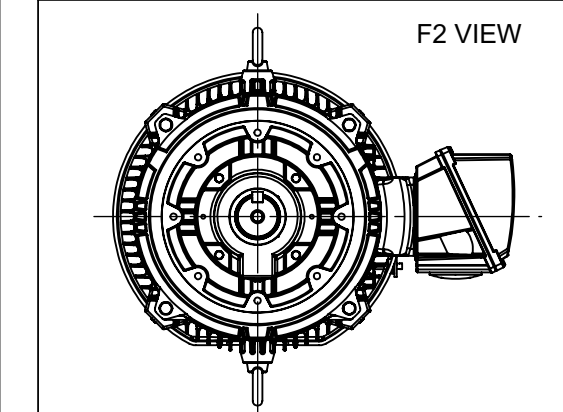
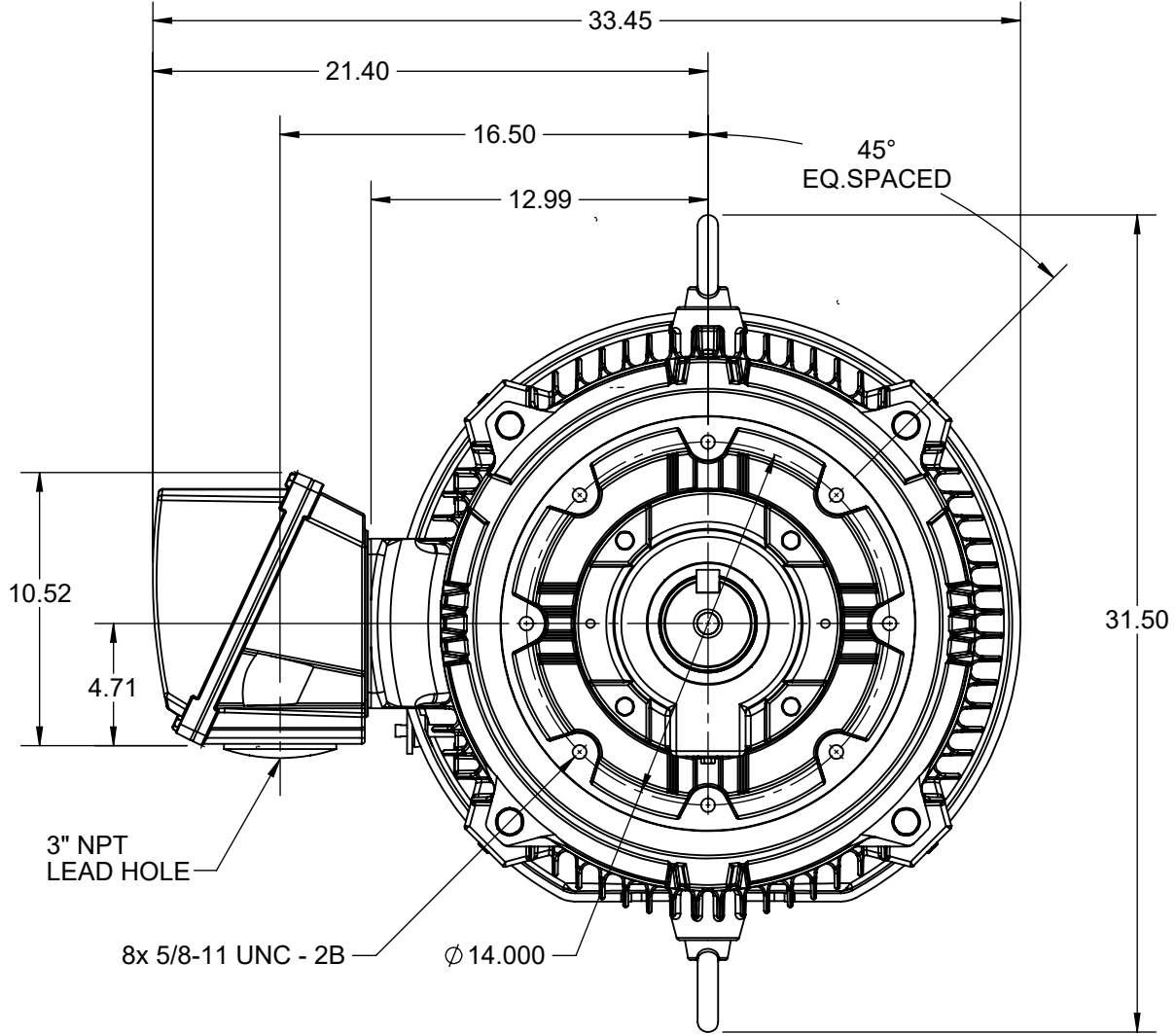
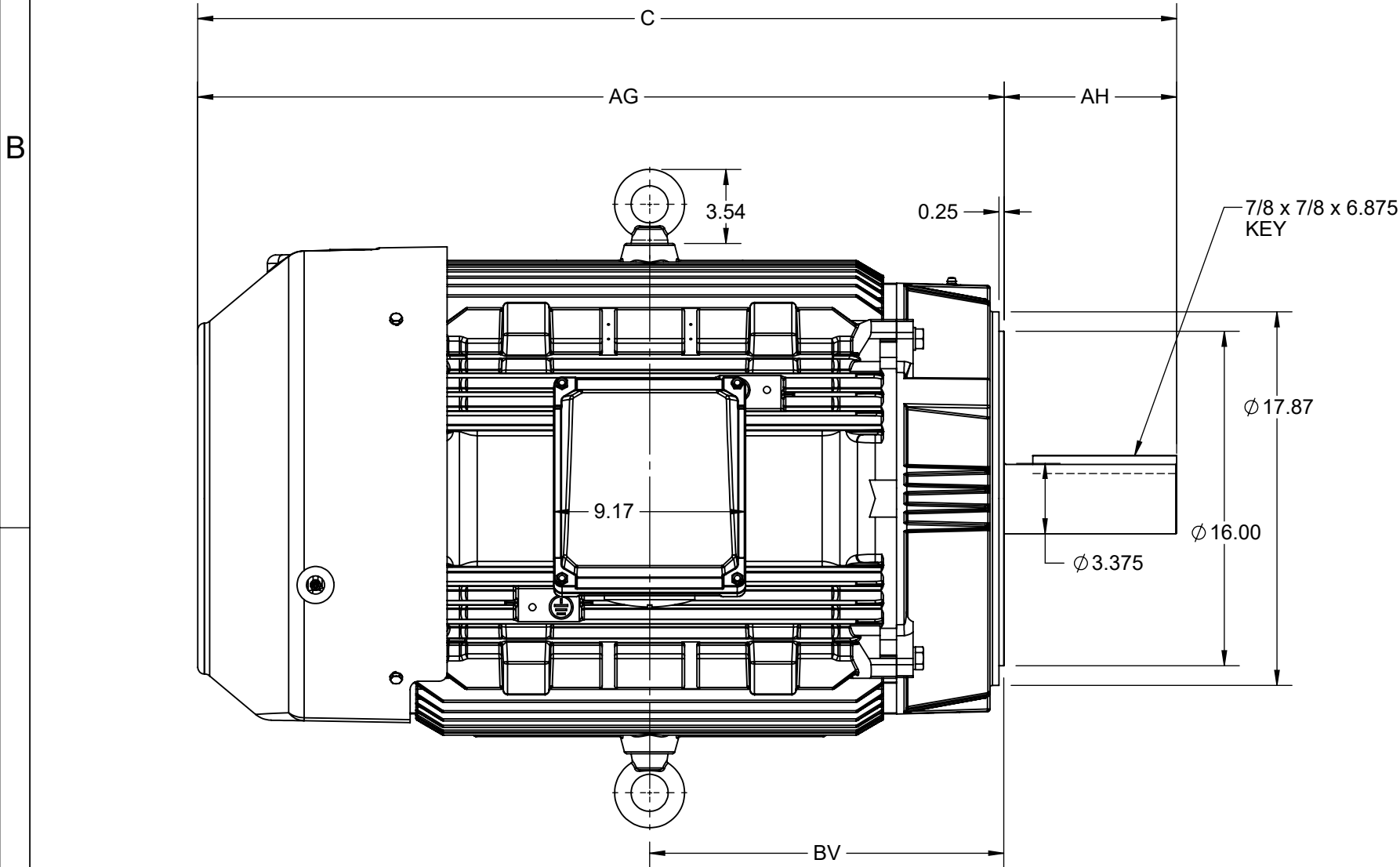
Phase	3	Output HP	150 Hp
Output KW	112.0 kW	Voltage	460 V
Speed	1790 rpm	Service Factor	1.15
Frame	445TCV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.8 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	169.0 A	Power Factor	87
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0294 Ohms	Mounting	Round
Motor Orientation	Horizontal Or Shaft Down	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
Connection Drawing	EE7300U	Outline Drawing	SS621014-200


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4					3		
DASH NO.	C	AG	AH	BV	MOUNTING	FRAME	
100	44.83	36.58	8.25	15.94	F1 OR F2 OR F3	444TC	
200	46.83	38.58		16.94		445TC	



DRAWING REVISION D	REVISION BY JP	REV DATE/© DATE 09-08-2021
ECO CR-0004373	APPROVED BY GNK	DATE 09-08-2021
ECO DESCRIPTION DRAWING UPDATED COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.		

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY BISWA	 Regal Beloit America, Inc.	
DATE 09/04/2020		
APPROVED BY SBD	DESCRIPTION OUTLINE	
DATE 09/04/2020	444/445TC FR-NEMA-SD & IEEE841-ROUND	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS621014
		SHEET 1 OF 1

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: <div><div>DEC.</div><div>INCH</div><div>mm</div><div>ANGLE</div></div> <div><div>.X</div><div>±0.1</div><div>[±2.5]</div><div>±7' 30"</div></div> <div><div>.XX</div><div>±0.02</div><div>[±0.51]</div></div> <div><div>XXX</div><div>±0.005</div><div>[±0.127]</div></div> <div><div>.XXXX</div><div>±0.0005</div><div>[±0.0127]</div></div> <div>REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200/INCH 5.1/mm mm SHOWN IN [BRACKETS]</div>		DRAWN BY DRS	<div><div>REGAL™</div><div>Regal Beloit America, Inc.</div></div>			
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996				
ECO DESCRIPTION UPDATED TO SOLIDWORKS			DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE						
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			REFERENCE		MATERIAL		PROCESS/FINISH		
			THIRD ANGLE PROJECTION		<div><div>SIZE</div><div>A</div></div>		<div><div>DRAWING NUMBER</div><div>EE7300U</div></div>		<div><div>SHEET</div><div>1 OF 1</div></div>



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

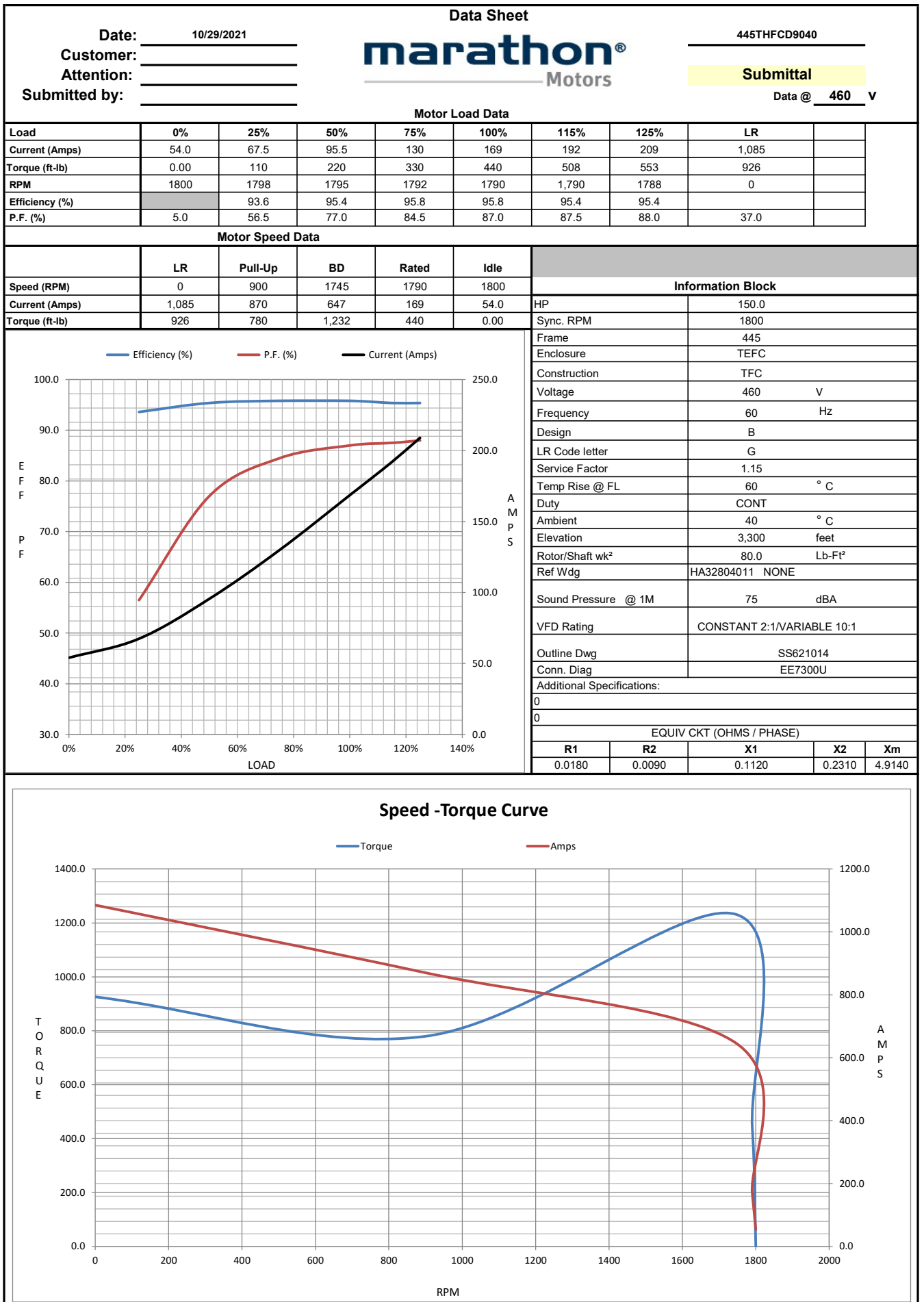
CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300U
OUTLINE: SS621014
WINDING: HA32804011 NONE 4
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 445THFCD9040
CAT #: W112-P
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
150	112	1800	1790	445TCV	TEFC	TFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	169	LINE OR INVERTER	CONT	H	1.15	40	3300
F.L. EFF		95.8	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE	
F.L. PF		87.0	3/4 LD PF	84.5	1/2 LD PF	77.0	95.4	SQ CAGE INV RATED	
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
440	LB-FT	1,085		926	LB-FT	210%	1,232	LB-FT	280%
SOUND PRESSURE @ 3 FT.		SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR WGT
75	dBA	84	dBA	80.0	LB-FT ²	1000	LB-FT ²	25	SEC.
*** SUPPLEMENTAL INFORMATION ***									
DE BRACKET TYPE		ODE BRACKET TYPE		MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS
C-FACE		STANDARD		ROUND	SHAFT DOWN	PREMIUM SEVERE DUTY	NONE	YES	NONE
BEARINGS		GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE	
DE	ODE	POLYREX EM		T		NONE		NONE	
BALL	BALL							1045 HOT ROLLED (C-204)	
6319	6317							CAST IRON	
THERMOSTATS		PROTECTORS		WDG RTD's		BRG RTD's		THERMISTORS	
NONE		NOT		NONE		NONE		NONE	
R1 (ohms/ph)		R2 (ohms/ph)		X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)	
0.018		0.009		0.112		0.231		4.914	
VIBRATION (in/sec)		FLOAT							
0.080		ODE							
INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1									
INV. HP SPEED RANGE: NONE									
ENCODER: NONE									
NONE									
NONE								NONE PPR	
BRAKE: NONE									
NONE								NONE	
FT-LB: NA									
VOLTAGE: NONE									
HZ:									
UL: V - LIME-INS.CONST UL REC									

FORM: 3531 REV. 4 2/27/06



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 : 445THFCD9040

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

Catalog No : W112-P

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 09/07/2022

CE 22