# PRODUCT INFORMATION PACKET



Model No: 445THFCD9106 Catalog No: W603A

XRI®-841 Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 900 RPM, 445T Frame, TEFC



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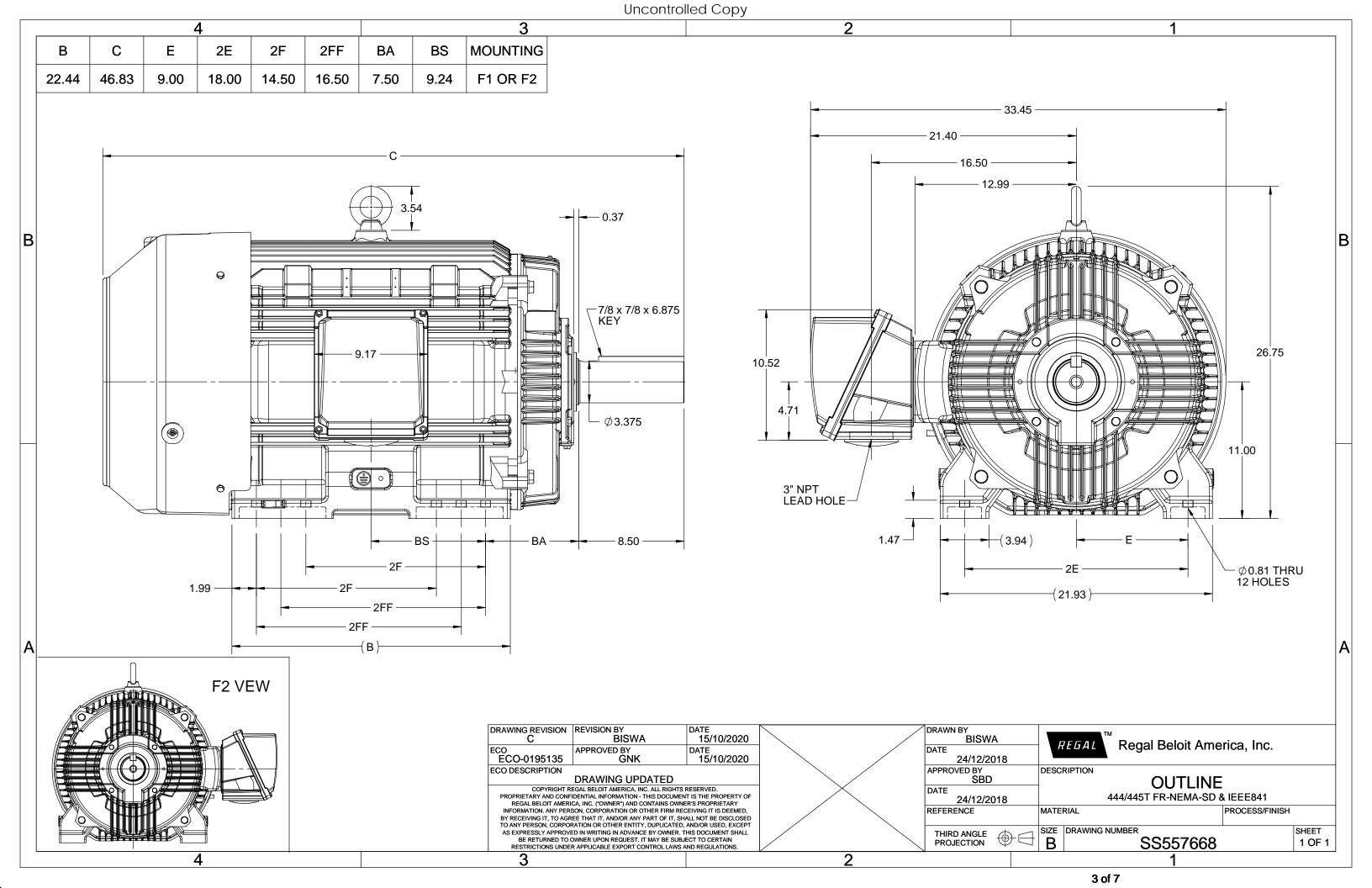
### Nameplate Specifications

Phase	3	Output HP	100 Hp			
Output KW	75.0 kW	Voltage	460 V			
Speed	890 rpm	Service Factor	1.15			
Frame	445T	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	93.6 %			
Ambient Temperature	40 °C	Frequency	60 Hz			
Current	123.0 A	Power Factor	80.8			
Duty	Continuous	Insulation Class	н			
Design Code	В	KVA Code	G			
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317			
UL	Listed	CSA	Υ			
CE	Υ	IP Code	56			
Number of Speeds 1		Hazardous Location	DIVISION 2 T2B			

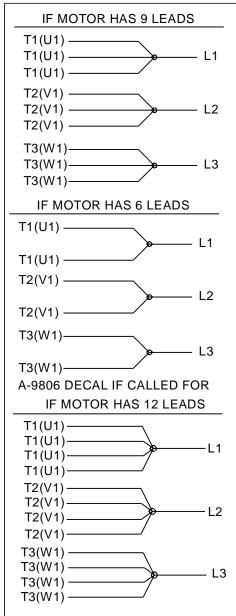
## **Technical Specifications**

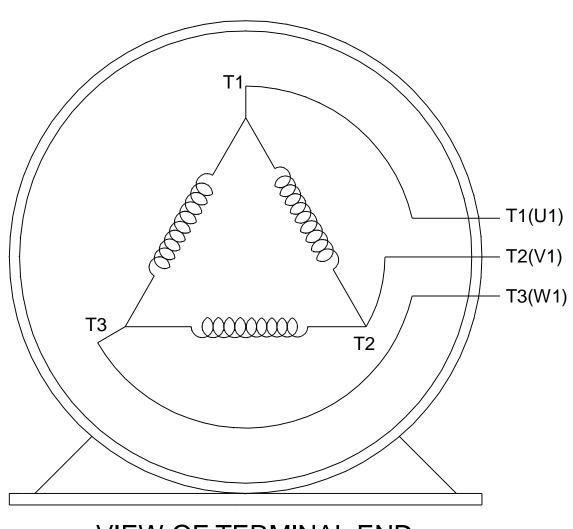
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	8	Rotation	Reversible			
Resistance Main	.0447 Ohms	Mounting	Rigid Base			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	Т	Shaft Diameter	3.375 in			
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing <b>EE7300U</b>		Outline Drawing	SS557668			

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# VIEW OF TERMINAL END

DRAWING REVISION	REVISION BY	DATE
L	AJW	05-04-2015
ECO	APPROVED BY	DATE
ECO-0077067	EWH	05-05-2015
ECO DESCRIPTION		

#### UPDATED TO SOLIDWORKS

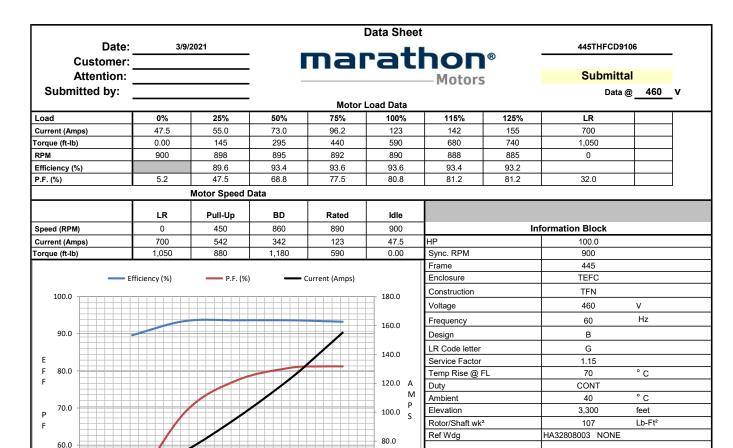
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IOLLINA	TINGES ON	ILLUU	
OTHER'	WISE SPE	CIFIED:	
DEC.	INCH	<u>mm</u>	<u>ANGLE</u>
.X	±0.1	[±2.5]	±7' 30"
.XX		[±0.51]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOV	E BURRS	& BREAK S	HARP
EDGES:	.003/.015	[.076/.381]	X 45°
CORNE	R FILLETS	S: R.02 [.51	]
MACHIN	IED SURF	ACES: 200	
		INCH ∨	mm 🗸
mm SHO	OWN IN [E	BRACKETS]	

TOLERANCES LINLESS

	DRAWN BY DRS  DATE 09-27-1996		REGAL Regal Beloit America, Inc.							
	APPROVED BY GK  DATE 09-30-1996	CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE								
,	REFERENCE	MATE	RIAL	PROCESS/FINISH						
	THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER EE7300U		SHEET 1 OF 1					

	P.O. BOX 8003 WAUSAU, WI 54401-8003 PH. 715-675-3311  Motors  DATA VOLTS: 460												
					CE	RTIFICATION DATA	SHEET						
CUSTOME								OMER P.O. #:					
ORDER #:						F	EFERENC	RENCE MODEL #: 445THFCD9106					
CONN. DIA	AGRAM:	EE7300U SS557668					CAT #: W603A CUSTOMER PART #:						
WINDING:		HA32808003	NONE	1			CUSTO	MOUNTING:	E1/E2 CAP	ARI E			
SPEED:		11/10/2000000	HONE					MOONTHO.	1 1/1 2 O/41 /	DEE			
					TYPICAL	MOTOR PERFORM	ANCE [	DATA					
НР	ĸw	SYNC RPM	FL	RPM		FRAME	ENC	LOSURE	TYPE	KVA CODE		DESIGN	
100	75	900	l .	390		445T	7	TEFC	TFN	G		В	
										<u> </u>			
PH	HZ	VOLTS	Ι Α	MPS		START TYPE		DUTY	INSL	S.F.	AMB(° C)	ELEV.(Ft.)	
3	60	460		123	1	INE OR INVERTER		CONT	Н	1.15	40	3300	
	F.L. EFF	93.6	3/4 LD EFF	93.6		1/2 LD EFF	93.4	GTD EFF	ELECT. TYPE		TYPE		
	F.L. PF	80.8	3/4 LD PF	77.5		1/2 LD PF	68.8	93.0		SQ CAGE I	NV RATED		
	. TORQUE	LR AMPS @	460 V			ORQUE		B.D. TORQUE		F.L. RISE (° C	)		
590	LB-FT	700		1,050 <b>LB-FT</b> 178%		1,180	LB-FT	200%	70				
SOLIND	PRESSURE @ 3												
000,10	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	STALL TIME		STARTS/HOUR	APROX.	MOTOR WGT	
72	dBA	81 <b>dBA</b>	107 LB-FT <sup>2</sup>		- LB-FT <sup>2</sup>		52 <b>SEC</b> .		0 2048		2048	LB.	
			•		*** SI	JPPLEMENTAL INFORM	ATION *	**					
		005 0010/55 7/05	MOUNT TYPE			SEVERE DUTY		ARDOUS	DRIP COVER	R SCREENS			
	ACKET TYPE ANDARD	ODE BRACKET TYPE STANDARD	RIGID	MOTOR ORIE HORIZO				ION 2 T2B	NO NONE		PAINT BLUE (EPOXY)		
31	ANDARD	STANDARD	KIGID	HORIZO	NIAL	FINEIWIOW SEVENE DOTT	DIVIO	ION Z IZB	NO	NONE	DL	OL (LFOXT)	
ВІ	EARINGS	GREASE	envi	T TYPE		SPECIAL DE	SDEC	CIAL ODE	SHA	FT MATERIAL	EDA	ME MATERIAL	
DE	ODE	OKLAGE	Olizi			OI EGIAL DE	0, 20	DIAL ODL	SIIA	MATERIAL	TIVA	WIE WATERIAL	
BALL	BALL	POLYREX EM		Т		NONE	N	NONE	1045 HOT ROLLED (C-204)		(	CAST IRON	
6319	6317												
			1		l				1				
THERMOSTATS PROTECTORS		wno	G RTD's BRG RTD's		THER	MISTORS	CONTROL		SPACE HEATERS				
	NONE	NOT		ONE		NONE		NONE	FALSE		NA		
R1	(ohms/ph)	R2 (ohms/ph)		hms/ph)	ns/ph) X2 (ohms/ph)			ohms/ph)	VIBRATION (in/sec)		FLOAT		
	0.028	0.023	0	.221		0.431		5.633		0.080		ODE	
								INVEDTED	TOPOUE.	CONSTANT 2:1/VARIABLE	10-1		
N 0						INVERTER INV. HP SPEEI							
T						III OI EE	D ITANOL.						
E						ENCODER:	NONE						
S							NONE						
•						NONE NONE PPR				PPR			
								BRAKE:	NONE				
l	PREPARED BY:					0							
l	DATE:	3/9/2021					FT-LB: NA						
							VOLTAGE: NONE HZ:						
FORM: 35	ORM: 3531 REV_4 2/27/06							UL: NO LETTER - ME, WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED					



60.0

40.0

20.0

50.0

40.0

Sound Pressure @ 1M

Additional Specifications:

VFD Rating

Outline Dwg

Conn. Diag

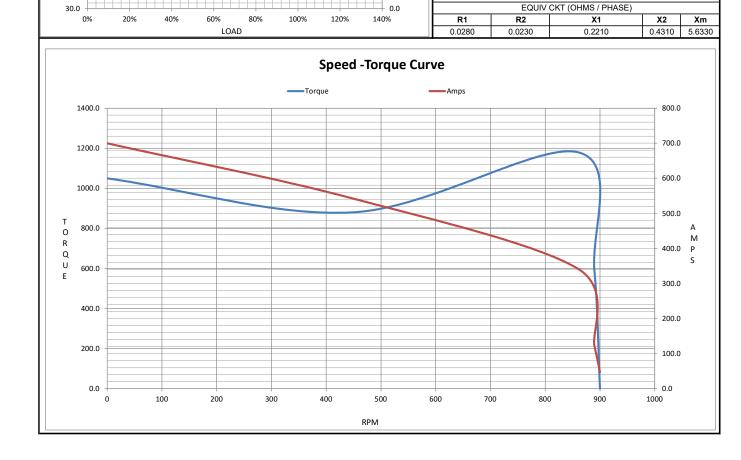
72

CONSTANT 2:1/VARIABLE 10:1

dBA

SS557668

EE7300U





# **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: 445THFCD9106

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

Catalog No: W603A

Rework No: N/A

### Directives:

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

J. cerse

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

**C**€ 22