## PRODUCT INFORMATION PACKET



Model No: 284THFCD19102 Catalog No: W543A

XRI®-841 Severe Duty Motor, 10 HP, 3 Ph, 60 Hz, 460 V, 900 RPM, 284T Frame, TEFC



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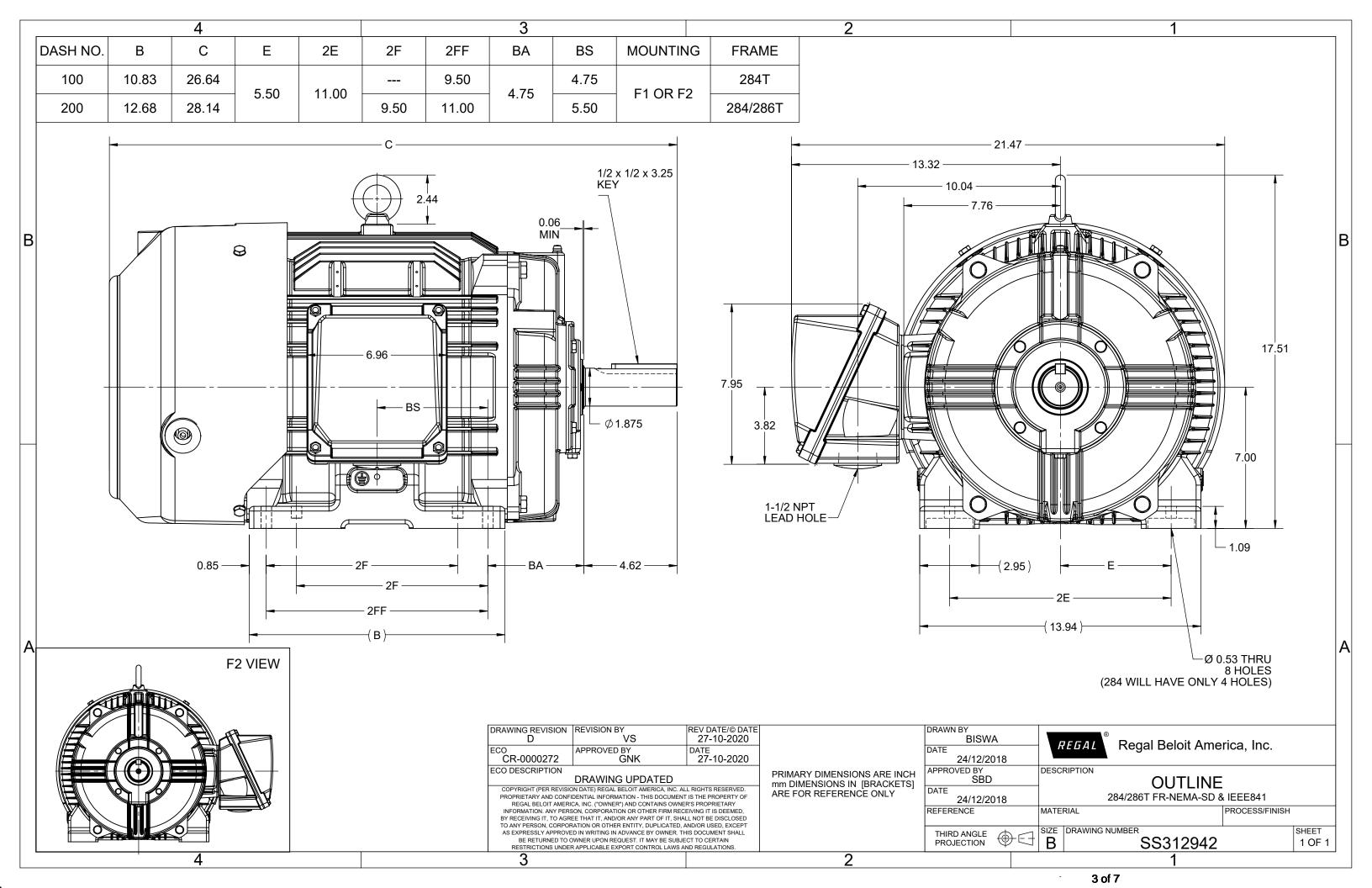
### Nameplate Specifications

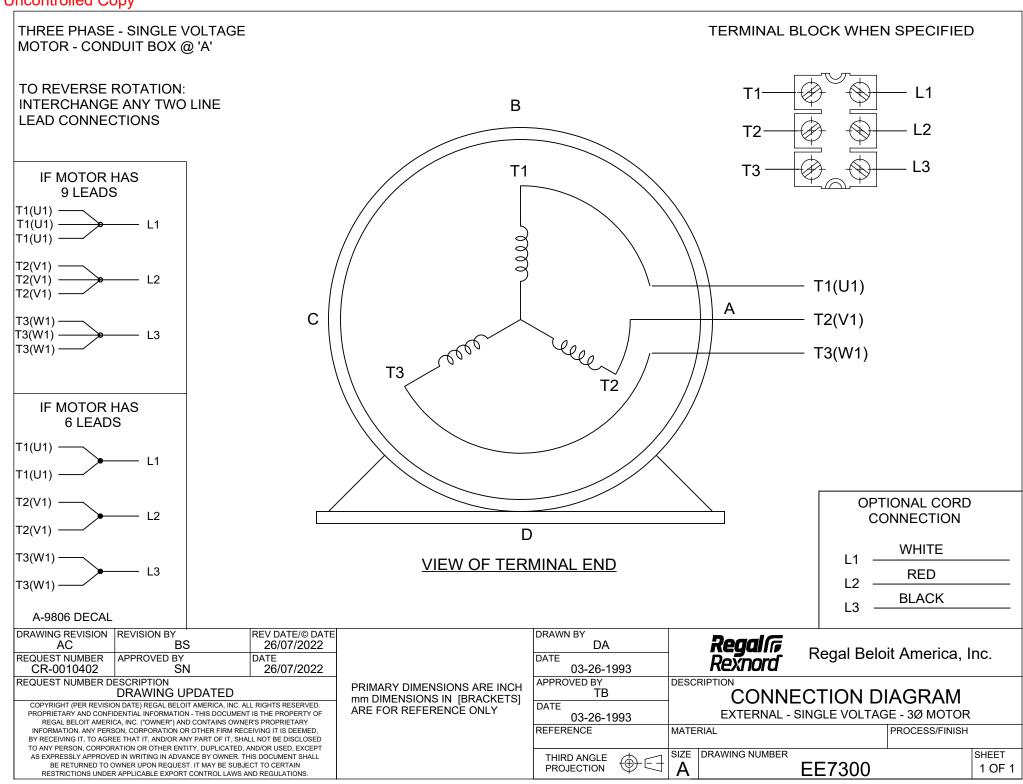
Phase	3	Output HP	10 Hp
Output KW	7.5 kW	Voltage	460 V
Speed	880 rpm	Service Factor	1.15
Frame	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	13.8 A	Power Factor	75
Duty	Continuous	Insulation Class	Н
Design Code	В	KVA Code	Н
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
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	.8717 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	1.875 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1/VARIABLE 10:1
Outline Drawing	SS312942-100	Connection Drawing	EE7300

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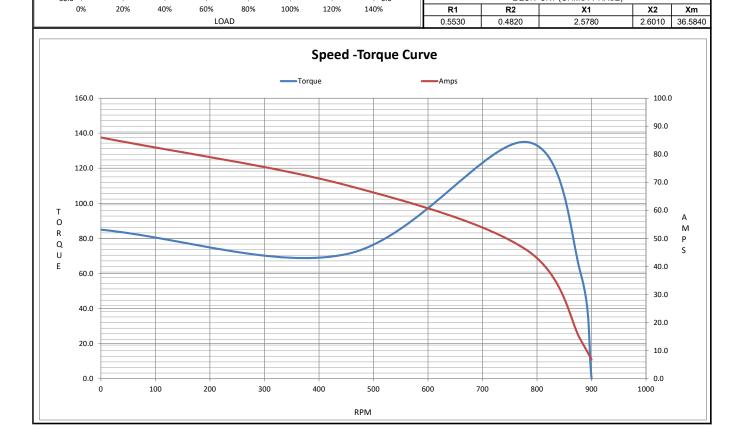


					<u>•</u>	m	aratho — electr	n°		P.O. BOX WAUSAU, PH. 715-6	WI 54401-8003	460	
						CE	ERTIFICATION DATA S	SHEET					
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	SS312942-10	00 1808008	NONE	1	TYDICA		CUSTO		284THFCE	W543A		
						ITPICA	L MOTOR PERFORM			TYPE		_	
HP	KW	SYNC F		FL R		FRAME			ENCLOSURE		KVA CODE DESIG		
10	7.5	900		880	J		284T	1	TEFC	TFC	Н		В
<b>PH</b> 3	<b>HZ</b>	<b>VOLT</b> 460		<b>AMF</b> 13.			START TYPE LINE OR INVERTER		<b>DUTY</b> CONT	INSL H	<b>S.F.</b> 1.15	<b>AMB</b> 40	ELEV. 3300
	F.L. EFF	89.5		3/4 LD EFF	89.9		1/2 LD EFF	88.9	GTD EFF		ELECT	TYPE	
	F.L. PF	75.0		3/4 LD PF	70.2		1/2 LD PF						
F.L. T	ORQUE	LR A	MPS @	460 V		L	.R. TORQUE		B.D. TORQUI		F.L. RISE (	° C)	
	LB-FT		86.0		85.0	LB-FT	142%	135	LB-FT	225%	45		
SOUND P	RESSURE	SOUN	ID	ROTOR	WK²	MAX. LOAD WK <sup>2</sup>		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR
63	dBA	72 <b>d</b>	ВА	6.2	LB-FT <sup>2</sup>	273	LB-FT <sup>2</sup>	35	SEC.		2	430	LB.
		ODE BRA	OVET	MOUNT		*** S	SUPPLEMENTAL INFORMA			DRIP		ı	
DE BRAC	KET TYPE				ITATION SEVERE DUTY		HAZARDOUS LOCATION		COVER SCREENS			PAINT	
STAN	IDARD	STAND	ARD	RIGID	HORIZ	ONTAL	PREMIUM SEVERE DUTY	DIVIS	SION 2 T2B	YES	NONE	BLUE - RA	AL 5003 (EPOXY)
BEAI DE	RINGS	GREA	SE	SHAFT	TYPE		SPECIAL DE	SPE	CIAL ODE	SHAFT MATERIAL		FRAME MATERIAL	
6311	6211	POLYRE	X EM	Т			NONE		NONE	1045 HOT ROLLED (C-204)		CAST IRON	
	THERMOSTATS PROTECTORS			WDG RTD's			BRG RTD's		THERMISTORS		CONTROL		HEATERS
NC	ONE	TON		NON	1E		NONE		NONE		FALSE		NA
		X1 (ohn					Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
0.	553	0.48	2	2.57	78		2.601	1 3	36.584	L	0.080		ODE
* N O T									INVERTER INV. HP SPEE		CONSTANT 10:1/\ NONE	/ARIABLE 1	0:1
E S *									ENCODER: NONE NONE			NONE	PPR
PREP	ARED BY:	8/5/20	22						BRAKE: NOI FT-LB:		NONE NA		

FORM: 3531 REV\_4 2/27/06

| FT-LB: NA | VOLTAGE: NONE | HZ: UL: NO LETTER - ME, WUX! TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED

					Data She	et				
Date: 7/27/2022			<u></u>					284THFCD19	102	
Customer:				mai	rai	:hor	®		·	
Attention:						— Motor		Submittal		
Submitted by:						Data @ 460 V				
Submitted by.				Motor	Load Data			Data (	@ <del>460</del> V	
oad I	0%	25%	50%	75%	100%	115%	125%	LR		
urrent (Amps)	6.8	7.5	9.0	11.0	13.8	15.5	17.0	86.0		
rque (ft-lb)	0.00	14.7	29.6	44.6	60.0	69.0	75.4	85.0		
PM	900	895	890	885	880	875	875	0		
fficiency (%)		83.3	88.9	89.9	89.5	88.9	88.3			
.F. (%)	6.2	37.5	58.8	70.2	75.0	77.5	78.4	32.0		
V7		Motor Speed Da			1	1	1	1		
T										
	LR	Pull-Up	BD	Rated	ldle					
peed (RPM)	0	450	780	880	900		l	nformation Block		
ırrent (Amps)	86.0	69.0	46.0	13.8	6.8	HP		10.0		
rque (ft-lb)	85.0	71.0	135	60.0	0.00	Sync. RPM		900		
						Frame		284		
Eff	iciency (%)	P.F. (%)	<u> </u>	Current (Amps)		Enclosure		TEFC		
100.0			18			Construction		TFC		
					=	Voltage		460	V	
					Η	Frequency		60	Hz	
90.0					16.0	Design		В		
50.0						LR Code lette		Н		
E					14.0			_		
F 80.0						Service Facto		1.15	° C	
F					12.0	Temp Rise @	! FL	45 CONT	C	
						Duty			° C	
70.0						Ambient		40 3,300		
P					10.0	.0.0 S Elevation			feet	
F						Rotor/Shaft w	K-	6.2	Lb-Ft²	
60.0					8.0	Ref Wdg		HA31808008 NONE		
90.0						Sound Pressi	ıre @ 1M	63	dBA	
			6		6.0					
50.0						VFD Rating		CONSTANT 10:1/VAR	RIABLE 10:1	
					Η.,	Outling Davie				
					4.0	Outline Dwg Conn. Diag			7300	
40.0						Additional Sp	acifications:		300	
					2.0	0	comoations.			
						0				
30.0					0.0		FOLI	IV CKT (OHMS / PHASE)		
30.0 + 30%	40%	60% 90%	100%	120%	140%	D4	l pa	V4	V2   V	





# **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: 284THFCD19102

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

Catalog No: W543A

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:

Authorized Representative in the Community:

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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