## PRODUCT INFORMATION PACKET



Model No: 213THTCD8071 Catalog No: Y990A

Blue Max® Inverter Duty Encoder Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TENV



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## Nameplate Specifications

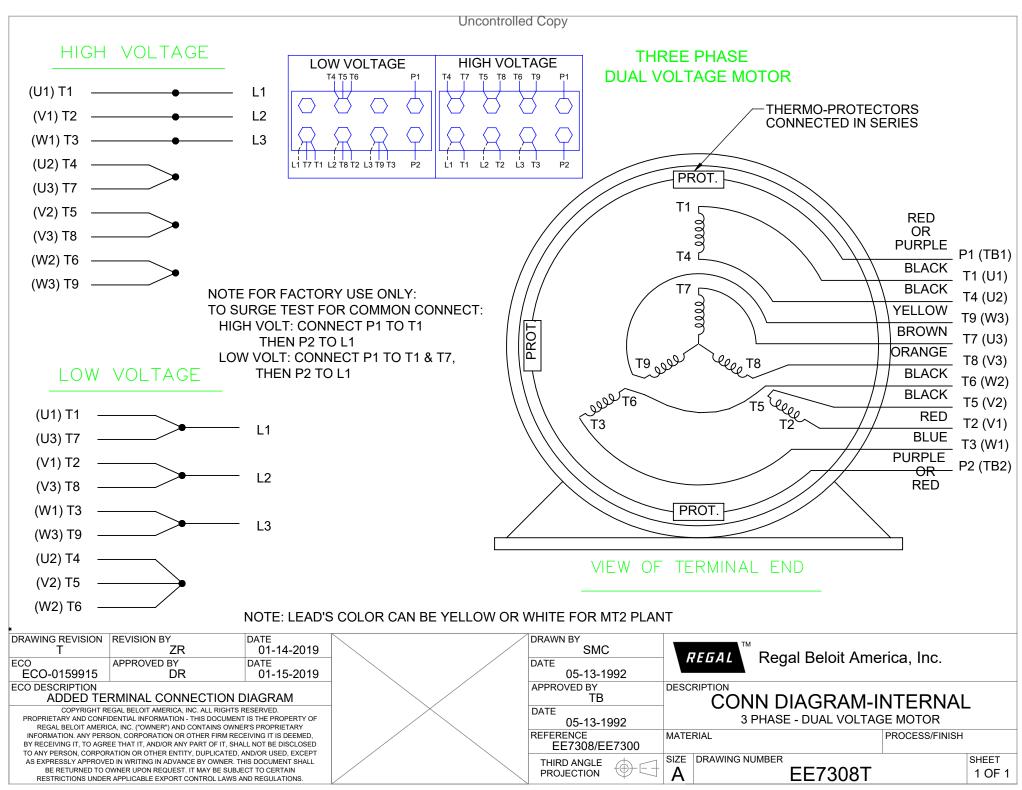
7.50 Hp	Output KW	5.6 kW
60 Hz	Voltage	230/460 V
20.0/10.0 A	Speed	1770 rpm
1	Phase	3
90.6 %	Power Factor	78
Continuous	Insulation Class	Н
INV	KVA Code	L
213TC	Enclosure	Totally Enclosed Non Ventilated
Thermostat	Ambient Temperature	40 °C
6309	Opp Drive End Bearing Size	6308
Recognized	CSA	Υ
Υ	IP Code	55
1		
	60 Hz 20.0/10.0 A 1 90.6 % Continuous INV 213TC Thermostat 6309 Recognized	60 Hz Voltage  20.0/10.0 A Speed  1 Phase 90.6 % Power Factor  Continuous Insulation Class INV KVA Code  213TC Enclosure  Thermostat Ambient Temperature 6309 Opp Drive End Bearing Size  Recognized CSA

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	1.142 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	1.375 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1
Outline Drawing	SS810152-100	Connection Drawing	EE7308T

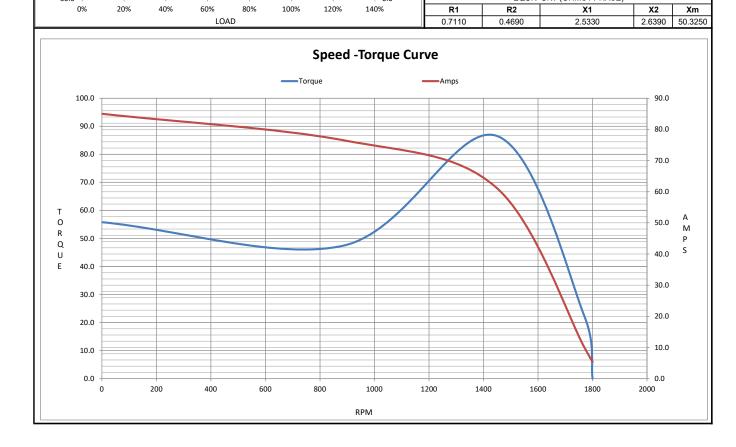
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/30/2022

**Uncontrolled Copy** 3 MOUNTING DASH NO. С Ε 2E 2F 2FF FRAME В AG AΗ BA BV 213TC 100 6.76 24.42 5.50 22.30 7.26 4.25 4.25 8.50 3.12 F1 OR F2 200 8.26 26.92 23.80 8.00 213/215TC 5.50 7.00 13.96 8.40 6.82 5.83 ∫8.06\ \MAX/ -5/16 x 5/16 x 2.38 KEY 0.25 В **EQ.SPACED**  $\emptyset$ 7.250 12.73 Ø8.98 4.65 Ø8.50 4.97  $\emptyset$  1.375 5.25 1" NPT LEAD HOLE-— 4.63 **→** 4x 1/2-13 UNC -2B-- 0.56 (1.57) 0.63 -CLEARANCE REQUIRED -BV FOR REMOVING HOUSING 10.04 Ø 0.41 THRU 8 HOLES F2 VIEW (213 WILL HAVE ONLY 4 HOLES) DRAWING REVISION BY B REV DATE/© DATE 15-09-2020 DRAWN BY vs VS Regal Beloit America, Inc. REGAL ECO-0192056 APPROVED BY GNK DATE DATE 15-09-2020 26-06-2020 ECO DESCRIPTION APPROVED BY SBD PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] DRAWING UPDATED **OUTLINE** COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.
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	REF.											
					-	thone			,			
				ma	11.5	*TOON*			PH. 715-6	75-3311		
						1-101013		DAT	A VOLTS:	460		
					CE	RTIFICATION DATA S	HEET					
сиѕтом	ER:						custo	MER P.O. #:				
ORDER #						R			213THTCD	8071		
										Y990A		
OUTLINE												
WINDING SPEED:	:	HA31324027	NONE	2				MOUNTING:	F1/F2 CAP	ABLE		
SPEED:				TY	PICAL	MOTOR PERFORMA	NCE DA	ATA				
up.	KIM	CVNC DDM	-	DDM		FDAME	ENC	OCUPE	TVDE	KVA CODE		DECICN
пР	NVV	STING RPIN	- FL	RPW		FRANIE	ENC	JOSUKE	TIPE	KVA CODE		DESIGN
7.5	5.6	1800	1	770		213TC	Т	ENV	TTC	L		INV
PH	HZ	VOLTS	A	MPS		START TYPE	D	UTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	2	0/10		INVERTER ONLY	С	ONT	Н	1.15	40	3300
		I I										
	F.L. PF	70.0	3/4 LD PF	71.5		1/2 LD PF	59.0	09.9		SQ CAGE I	NV DUTT	
FI	TOROUE	IR AMPS @	460 V		I R	TOROUE		B D TOROU	F	FI RISE (° C)		
			100 1	55.8 L								
						'						
SOUND		active power	207	00.141143		****   0.40 14/1/2	0455.0			OT A DTOULOUP	4000V	
- 60					20						_	
02	UDA	/ I UDA	` 0.230	LD-F1	20	LD-F1	30	JEU.			100	LB.
					*** SL	IPPLEMENTAL INFORMA	TION ***					
							HAZA	RDOUS				
											_	
	C-FACE	BRAKE AND ENCODER	RIGID	HORIZONT	TAL	NO I	N	ONE	NO	NONE	В	LUE (ENAMEL)
B	FARINGS										Ι	
DE		GREASE	SHAF	TTYPE		SPECIAL DE	SPEC	IAL ODE	SHA	FT MATERIAL	FR	AME MATERIAL
BALL	BALL	POLVREY EM		т		NONE	N	ONE	10/15	HOT BOLLED (C-204)		CASTIRON
6309	6308	TOETREXEM				NONE		ONE	1045	TIOT NOLLED (0-204)		CAST INOIS
TUE	DMOSTATS	DROTECTORS	WDC	PTD'o		PDC DTD's	TUED	MICTOR		CONTROL	SPAC	E HEATERS
												NΑ
	17110 (140)		.,,	ONE		HOILE		0112		17602		
R1		R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Xm (c	hms/ph)	V			FLOAT
	0.711	0.469	2	.533		2.639	50	).325		0.150		ODE
Ň								INVEDTED	TOPOUE:	CONSTANT 2000:1		
0							IN			2.0 X BASE SPEED		
T												
E								ENCODER:	NORTHST	AR		
s								SL85				
*								NONE	OTEADAN		NONE	PPR
I	DDEDADED SY								STEARNS	NEMA		
I	PREPARED BY: DATE:	9/27/2021						87,0 FT-LB:	100	NEMA 2 35		
	DATE.							VOLTAGE:	20	08-230/460-190/380		HZ:
FORM: 3	531 REV 4	2/27/06				ľ	UL:			EAT PRT DEV UL REC		

					oata Shee	et					
Date: 7/26/2022			_			<b>L</b>	•	213THTCD8	213THTCD8071		
Customer:				naı	·aτ	hon	®		_		
Attention:			_			Motors		Submit	Submittal		
Submitted by:								Data	@ 460 V		
Jubililitica by.				Motor I	oad Data			Data			
ad	0%	25%	50%	75%	100%	115%	125%	LR			
rent (Amps)	5.4	5.7	6.7	8.0	10.0	10.5	11.5	85.0			
que (ft-lb)	0.00	5.5	11.0	16.6	22.2	25.7	27.9	55.8			
VI	1800	1793	1785	1780	1770	1,767	1762	0			
ciency (%)	1	82.0	88.5	90.4	90.6	90.4	90.2	1			
. (%)	6.5	37.0	59.0	71.5	78.0	81.0	82.5	42.5			
		Motor Speed D		-				-	1		
	LR	Pull-Up	BD	Rated	ldle						
eed (RPM)	0	885	1445	1770	1800			Information Block			
rent (Amps)	85.0	76.5	61.5	10.0	5.4	HP		7.5			
que (ft-lb)	55.8	47.4	86.7	22.2	0.00	Sync. RPM		1800			
						Frame		213 TENV			
— F	fficiency (%)	—— P.F. (%)	Current (Amps)		14.0	Enclosure					
100.0						Construction		TTC			
						Voltage		230/460	V		
						Frequency		60	Hz		
90.0					12.0	Design		INV			
						LR Code letter		L			
						Service Factor		1.0			
80.0					10.0	Temp Rise @ FL		105	°C		
					Α			CONT			
					_ м			40	° C		
70.0					8.0 P		Elevation		feet		
					S	Rotor/Shaft wk²		3,300	Lb-Ft²		
		7				Ref Wdg		HA31324027 NONE			
60.0					6.0	1.0ag		13.00.02.023 110.112			
						Sound Pressure @ 1M		62	dBA		
						V55 5 .:		0.001074017.0000.4			
50.0					4.0	VFD Rating		CONSTANT 2000:1			
						Outline Dwg					
					-	Conn. Diag		EE7308T			
					_	Additional Specifications:					
40.0					<del> </del> 2.0	Additional Spec	ifications:				
40.0					2.0	Additional Spec	cifications:				





# **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: 213THTCD8071

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

Catalog No: Y990A

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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