## **PRODUCT INFORMATION PACKET**

Model No: TCA7P51AE251GAA009 Catalog No: R930 TerraMAX® Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 132S Frame, TEFC



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# marathon®

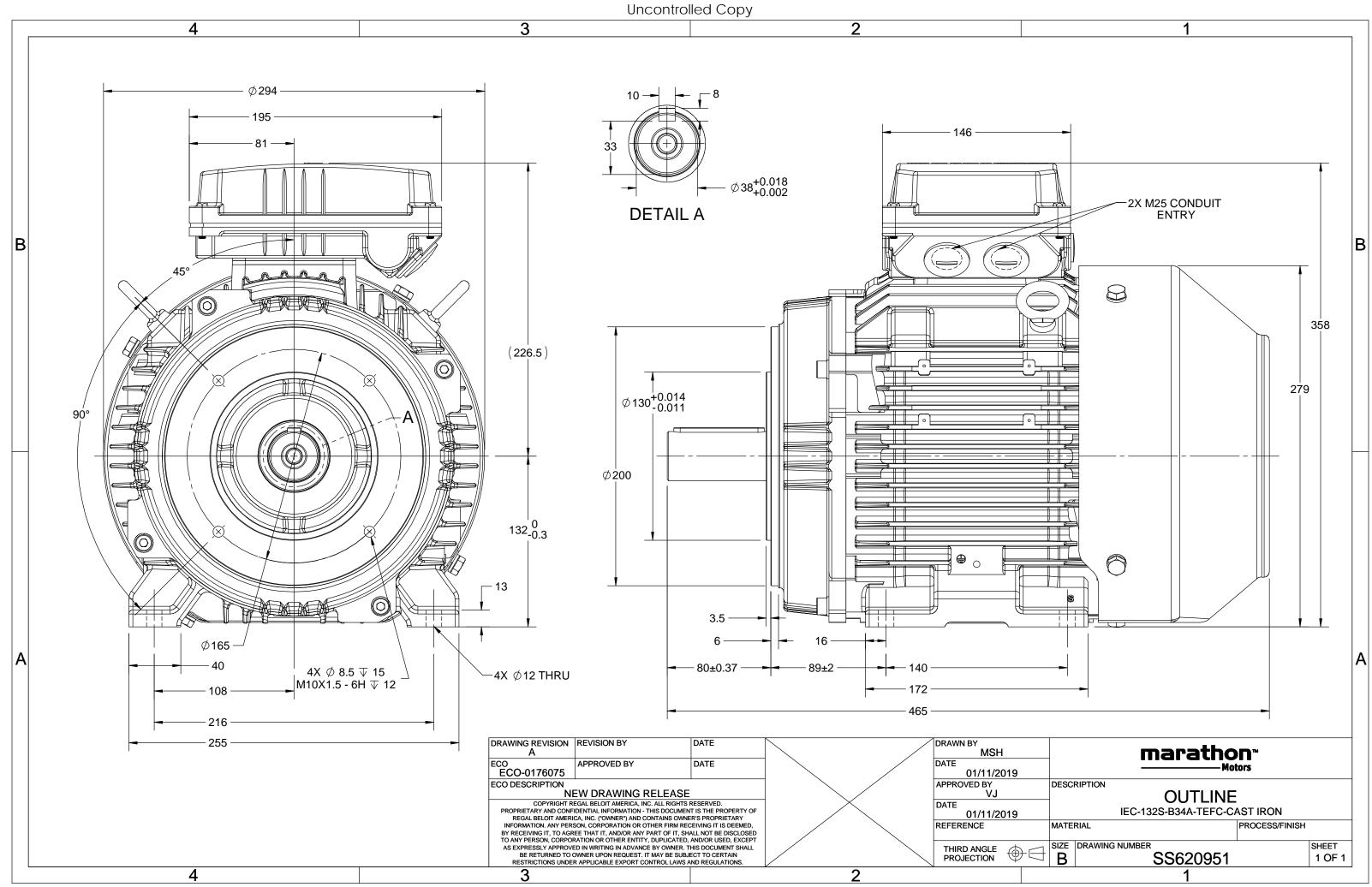
#### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp			
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 200/400 V			
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15			
Frame	132S	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	90.2 & 89.2 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	23.8/11.9 & 21/10.5 A	Power Factor	88			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208			
UL	Recognized	CSA	Ν			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

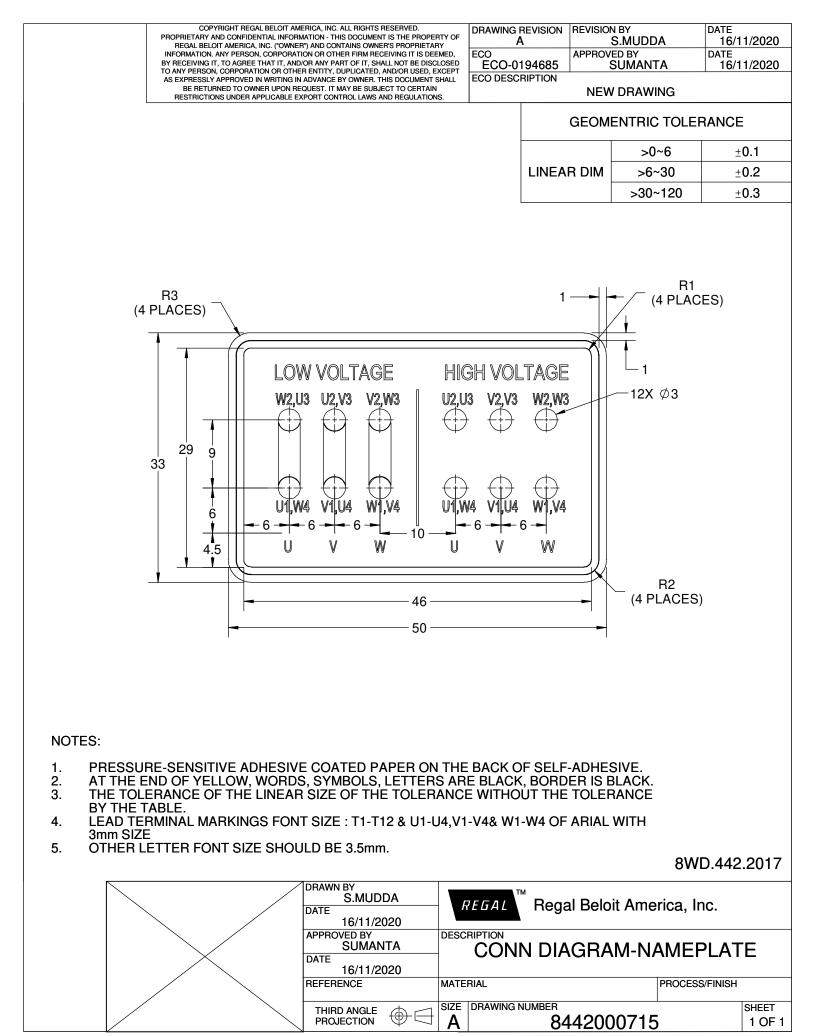
#### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	2	Rotation	Reversible			
Resistance Main	1.24 Ohms	Mounting	B3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	38.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing	n Drawing 8442000715		SS620951			

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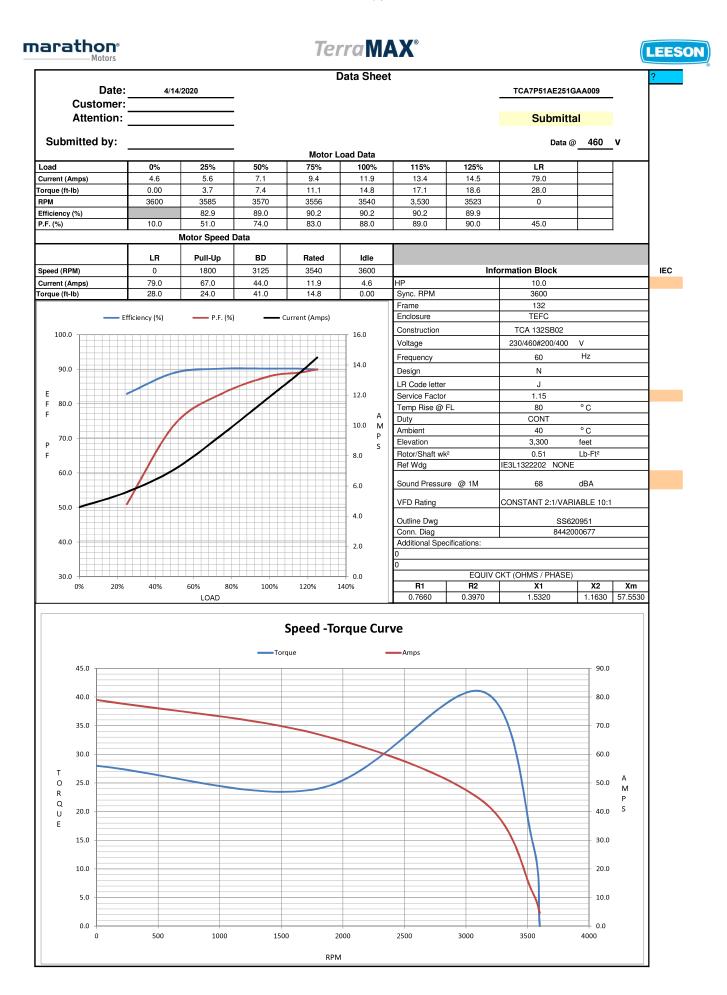




									P.O. BOX 8003			
					WAUSAU, WI 54401-8003 PH. 715-675-3311							
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
CUSTOME	-P-						CUST	OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:			44009		
CONN. DI		8442000677						CAT #:	F			
OUTLINE:		SS620951					CUSTO	MER PART #:		(000		
WINDING:		IE3L1322202	NONE	1				MOUNTING:				
SPEED:		1202102202	NONE					moontrate.	10			
0. 220.		-		т		MOTOR PERFORMA		ТА				
	1								1			
HP	ĸw	SYNC RPM	FI	RPM	FRAME		ENC	LOSURE	TYPE	KVA C	DDE	DESIGN
10	7.5	3600	:	3540		132S	Т	EFC	TCA 132SB02	J		N
РН	HZ	20170		MPS				UTY				
		VOLTS				START TYPE			INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	23.8/11	.9&21/10.5		INE OR INVERTER	C	ONT	F	1.15	40	3300
	F.L. EFF			00.0	1	101055	00.0	070 555	1			
	F.L. EFF F.L. PF		3/4 LD EFF 3/4 LD PF			1/2 LD EFF 1/2 LD PF	89.0 74.0	GTD EFF		ELECT. 1		
	F.L. PF	88.0	3/4 LD PF	83.0		1/2 LD PF	74.0	88.7		SQ CAGE IN	/ RATED	
	. TORQUE		100.1/	1				B.D. TOR		F.L. RISI		
		LR AMPS @	460 V	28.0	L.R. TORQUE		41.0				= (° C)	
14.8	LB-FT	79.0		28.0	LB-FT	189%	41.0	LB-FT	277%	80		
SOLIND	PRESSURE @ 3		-						1			
300100	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
72	dBA	81 dBA	0.51	LB-FT <sup>2</sup>	0.51	LB-FT <sup>2</sup>	10	SEC.	0.71	2		KG.
	4871		, 0.01		0.01		10	020.		-	00	
					*** SU	PPLEMENTAL INFORMA	TION ***					
						ARDOUS						
DE BRACKET TYPE		ODE BRACKET TYPE TYP						CATION	DRIP COVER	SCREENS		INT
FT-F	LANGE-165	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)
В	EARINGS	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME	
DE	ODE				0.200202		0.2002.002				FRAME MATERIAL	
BALL	BALL	POLYREX EM	STAN	NDARD IEC		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6308	6208			-		-		-		- ( )	-	-
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL		
	NONE	NOT	N	IONE		NONE	N	IONE	E.	ALSE	N	IA
R1	(ohms/ph)	R2 (ohms/ph)		hms/ph)		X2 (ohms/ph)		ohms/ph)		ION (in/sec)		TAC
	0.766	0.397	1	.532		1.163	5	7.553		.150	0	DE
+												
										CONSTANT 2:10/AL		
	N			INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE								
т							INV. HI	SPEED RANGE:	NONE			
								ENCODER:	NONE			
E									NONE			
s *								NONE			NONE	
-								NONE	NONE		NONE	rrr
						BRAKE:			-			
	PREPARED BY:				NONE NONE							
	DATE:	11/2//2020					FT-LB: NA VOLTAGE: NONE HZ					
EORM OF	31 DEV 4	2/27/06				-		VOLTAGE:	CONST UL REC			HZ:
FURIN: 35	31 REV_4	2/2//00					UL:	v - LI,IVIE-INS	CONST UL REC			

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### **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 : TCA7P51AE251GAA009

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

Catalog No : R930

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

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer