## **PRODUCT INFORMATION PACKET**





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marathon<sup>®</sup>

Motors

Product Information Packet: Model No: TCA7P53AE221GAA009, Catalog No:R232 Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 160M Frame, TEFC

# marathon®

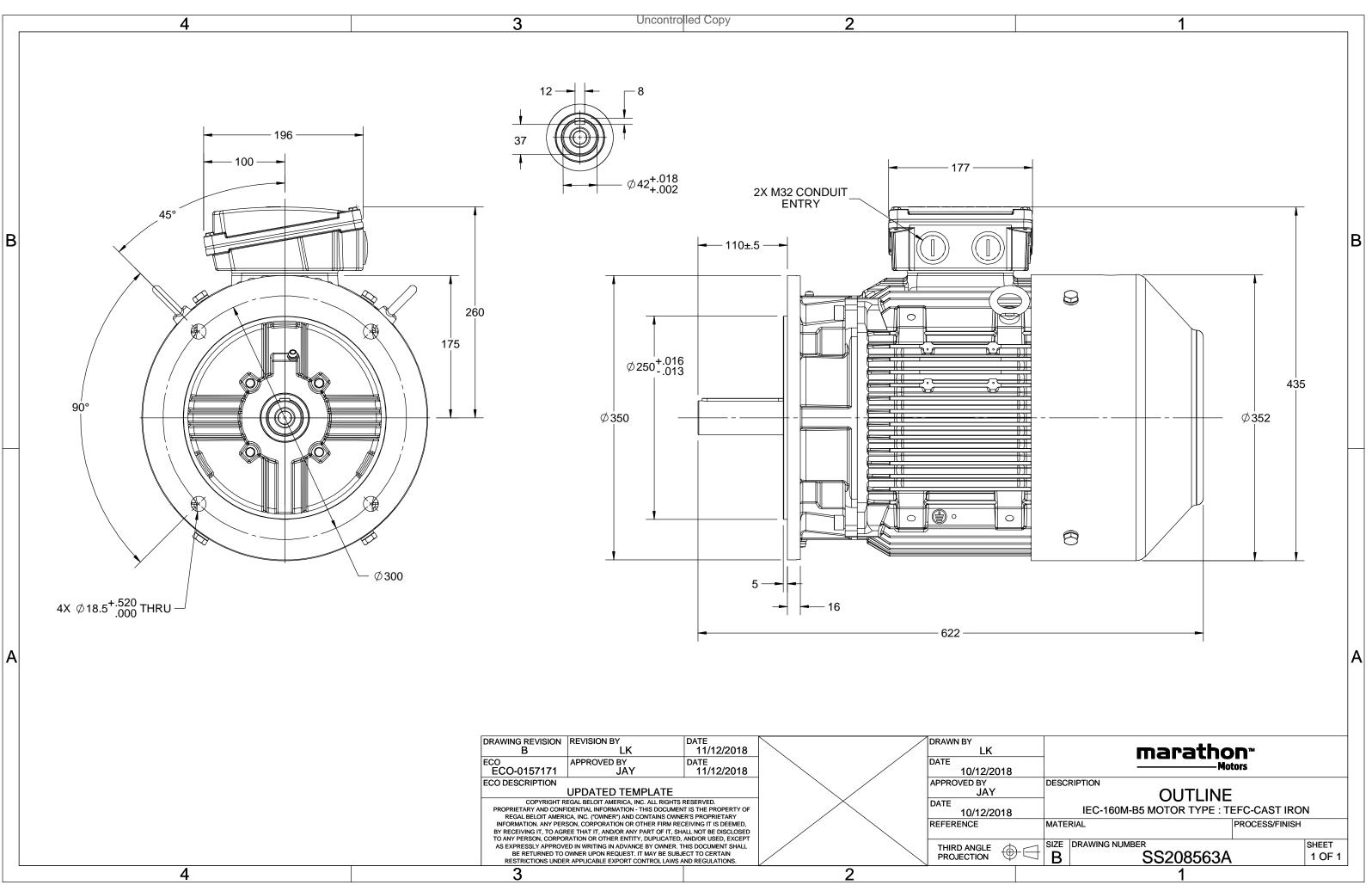
#### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp		
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V		
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	91 & 88 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	26.4/13.2 & 23.4/11.7 A	Power Factor	78		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	G		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
UL	Recognized	CSA	Ν		
CE	Y	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

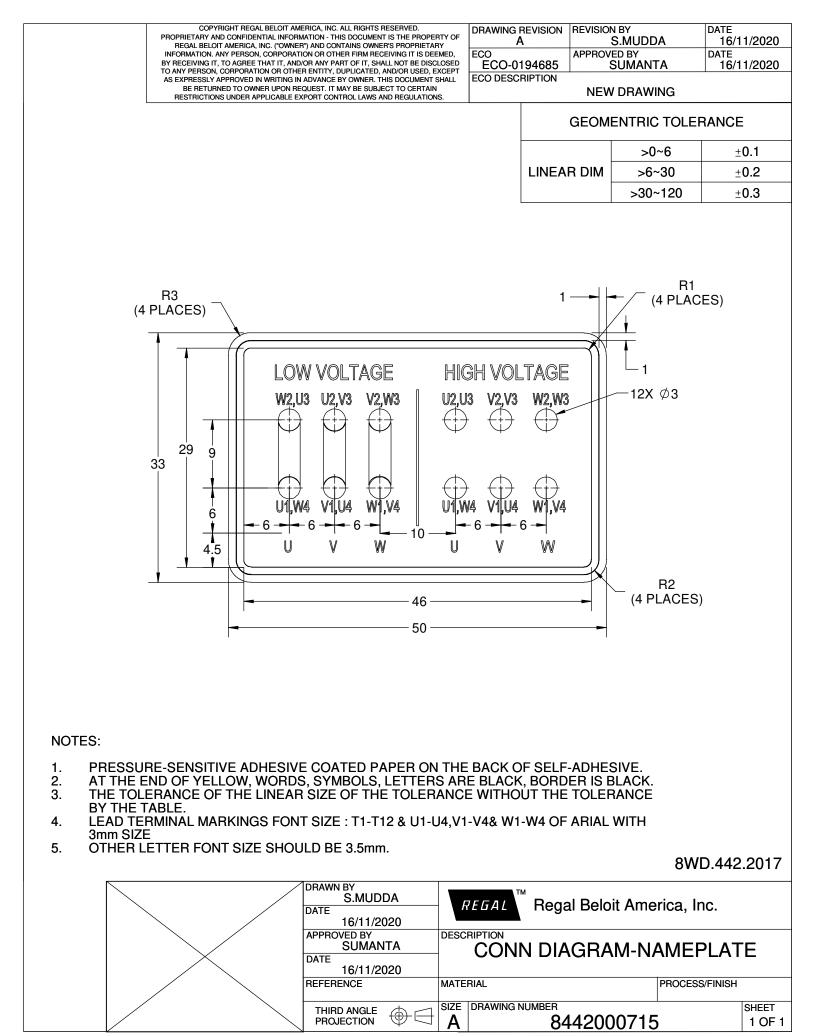
#### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	6	Rotation	Reversible		
Resistance Main	1.19 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	20.55 in		
Frame Length	10.00 in	Shaft Diameter	1.654 in		
Shaft Extension	4.33 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS208563A	Connection Drawing	8442000715		

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									P.O. BOX 8003				
					WAUSAU, WI 54401-8003								
									PH. 715-675-331	1			
									DATA VOLTS:	460			
									DATA VOLTO.	400			
					CE	RTIFICATION DATA S	исст						
					CE	RIFICATION DATA 5	NEEI						
CUSTOME	-						0.107	OMER P.O. #:					
				-									
ORDER #:				_			CAT #:		#: TCA7P53AE221GAA009				
CONN. DI		8442000677							H	232			
OUTLINE:		SS208563A					CUSTO	MER PART #:					
WINDING:		IE3L1606201	NONE	1				MOUNTING:	F3				
SPEED:		_											
					TYPICAL	MOTOR PERFORMA	NCE DA	TA					
HP	ĸw	SYNC RPM	F	RPM		FRAME	ENC	LOSURE	TYPE	KVA CODE		DESIGN	
10	7.5	1200		1180		160M	т	EFC	TCA 160MA06	G		N	
10	1.5	1200		1100		1000		LIC		0		in in	
PH	HZ	VOLTS		MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400		2&23.4/11.7		LINE OR INVERTER		ONT	F	1.15	40	3300	
	F.L. EFF	91.0	3/4 LD EFF	91.0		1/2 LD EFF	90.0	GTD EFF		ELECT.	TYPE		
	F.L. PF		3/4 LD PF			1/2 LD PF	61.0	89.7		SQ CAGE IN			
		10.0	0/120/11	12.0	-		01.0	00.1			TITUTED		
FI	TORQUE	LR AMPS @	460 V	1	I R	TORQUE		B.D. TOR		F.L. RIS	E (° C)	1	
44.5		77.8	400 V	94.1	LB-FT	211%	114	LB-FT	256%	80			
44.0	LD-FI	11.8		94.1	LD-FI	21178	114	LD-FI	230%	80			
SOLIND	PRESSURE @ 3	Т	1		1				1		1		
000110	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	
56	dBA	65 dBA	3.2	LB-FT <sup>2</sup>	3.2	LB-FT <sup>2</sup>	15	SEC.	0.71	2	149	KG.	
00	UDA	00 004	, 0.2		0.2		10	020.		2	145	110.	
					*** 91	PPLEMENTAL INFORMA							
			MOUNT		30	FFLEMENTAL INFORMA		ARDOUS					
DE BRACKET TYPE ODE BRA		ODE BRACKET TYPE			TOR ORIENTATION SEVERE DUTY		LOCATION		DRIP COVER	SCREENS	PAINT		
	LANGE-300	STANDARD	ROUND	HORIZO		NO		IONE	NO	NONE		ENAMEL)	
		ł						-				,	
В	EARINGS												
DE	ODE	GREASE	SHAFT TYPE		SPECIAL DE		SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL			
BALL	BALL												
6309	6209	POLYREX EM	STAN	DARD IEC	NONE		N	NONE 10		1045 HOT ROLLED (C-204)		CAST IRON	
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS	0	NTROL	SPACE	HEATERS	
	NONE	NOT		IONE		NONE		IONE		ALSE		IA	
	Home		· · ·			HOILE				1202			
R1 (ohms/ph) R2 (ohms/		R2 (ohms/ph)	s/ph) X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
0.709		0.369		1.872				1.867	0.150		ODE		
	0.100	0.000				2.000			ļ		1 0	02	
*													
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1								
0							INVERTER TOROGE. NONE						
т							INV. IIF SPEED RANGE, HONE						
E								ENCODER:	NONE				
S								NONE	NONE				
*								NONE			NONE	DDD	
									NONE		NUNE	FFR	
					BRAKE:								
	PREPARED BY:								NONE	ION			
	DATE:	11/10/2020						FT-LB:		NA			
50011		0/07/00					VOLTAGE: NONE HZ:   UL: V - LI,ME-INS,CONST UL REC HZ:						
FORM: 35	31 REV_4	2/27/06					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 : TCA7P53AE221GAA009

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

Catalog No : R232

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