# **PRODUCT INFORMATION PACKET**

Model No: TCA1P53AE251GAA009 Catalog No: R920 TerraMAX® Cast Iron Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 100L Frame, TEFC



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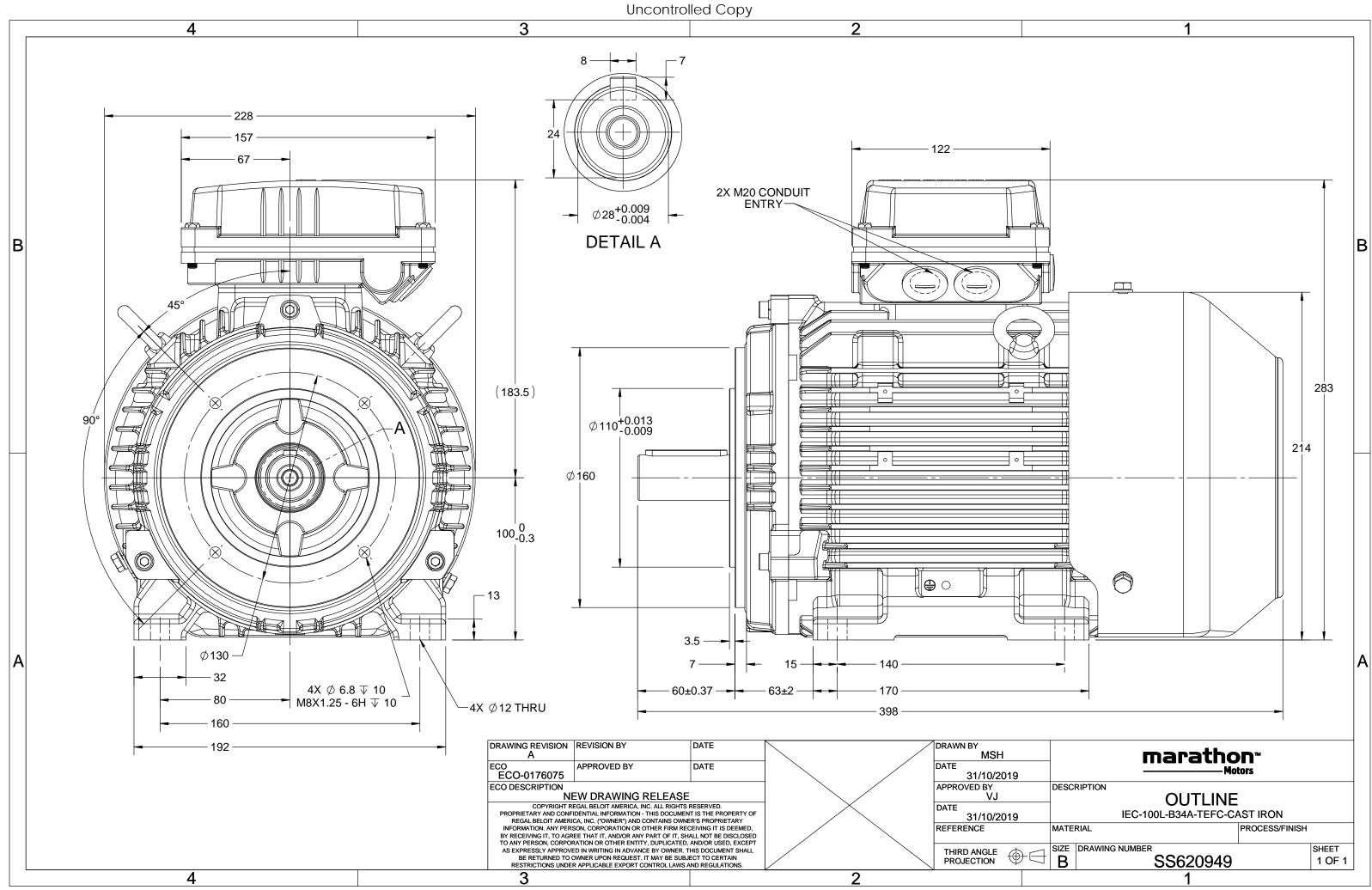
#### Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp			
Output KW	1.5 & 1.1 kW	Voltage	230/460 & 200/400 V			
Speed	1175 & 980 rpm	Service Factor	1.15 & 1.15			
Frame	100L	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	88.5 & 81 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	6/3 & 5.4/2.7 A	Power Factor	72			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	к			
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

## **Technical Specifications**

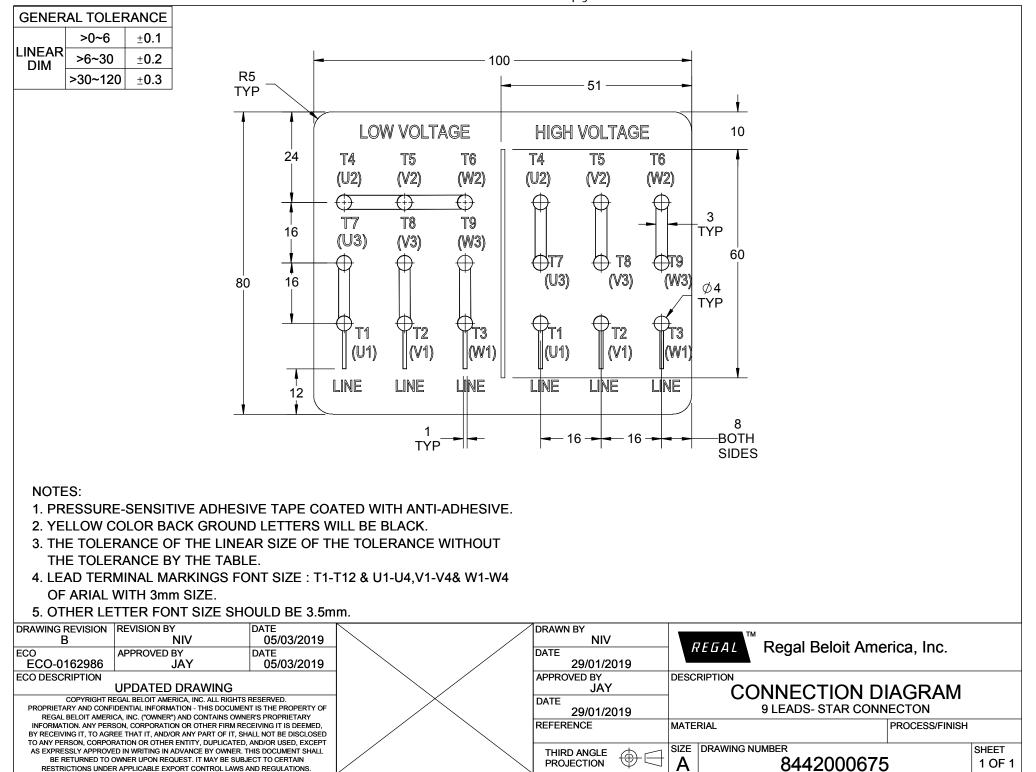
Electrical Type	ctrical Type Squirrel Cage Inverter Rated		Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	6.5 Ohms	Mounting	B3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Shaft Diameter	28.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Connection Drawing 8442000675		Outline Drawing	SS620949

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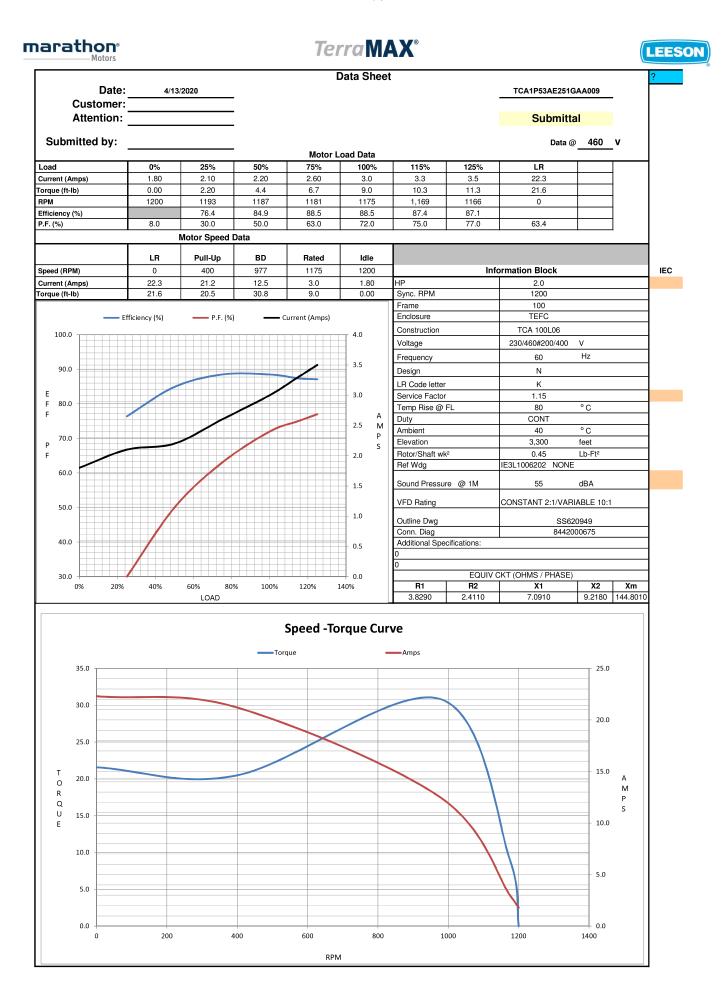




									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-3311 DATA VOLTS:			
					CEF	RTIFICATION DATA SH	IEET					
CUSTOMER: ORDER #: CONN. DIAGRAM: 8442000675 OUTLINE: SS620949 WINDING: IE3L1006202 NONE 1 SPEED:			CUSTOMER P.O. #: REFERENCE MODEL #:									
		SS620949				CAT #: CUSTOMER PART #: MOUNTING:		t:				
				יד	PICAL	MOTOR PERFORMA	NCE DA	TA				
HP	кw	SYNC RPM	FL	L RPM FRAME		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
2	1.5	1200	1	175	75 100L		TEFC		TCA 100LA06	К		Ν
						<b>r</b>					1	
<b>PH</b> 3	HZ 60/50	VOLTS 230/460#200/400		MPS 5.4/2.7		START TYPE		ONT	INSL F	<b>S.F.</b> 1.15	AMB (° C) 40	ELEV.(Ft.) 3300
3	60/50	230/460#200/400	6/38	5.4/2.7	l	LINE OR INVERTER	C	UNT	F	1.15	40	3300
	F.L. EFF	88.5	3/4 LD EFF	88.5		1/2 LD EFF	84.9	GTD EFF		ELECT. 1	TYPE	
	F.L. PF	72.0	3/4 LD PF	63.0		1/2 LD PF	50.0	86.8		SQ CAGE IN	V RATED	
		1										
9.0		LR AMPS @ 22.3	460 V	21.6	L.R.	240%	30.8	B.D. TOR	2UE 342%	F.L. RISE 80	E (° C)	
9.0	LD-FI	22.3		21.0	-D-F I	240 %	30.0		342 %	80		
SOUND F	PRESSURE @ 3 FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STARI	S/HOUR	APROX.	MOTOR WGT
55	dBA	64 <b>dBA</b>	0.45	LB-FT <sup>2</sup>	0.45	LB-FT <sup>2</sup>	15	SEC.		2	44	KG.
			•		*** SU	PPLEMENTAL INFORMA	TION ***					
DE BRACKET TYPE			MOUNT TYPE	MOTOR ORIENTATION		SEVERE DUTY		RDOUS	DRIP COVER	SCREENS	PAINT	
	LANGE-130	ODE BRACKET TYPE STANDARD	B3	HORIZON		NO		ONE	NO	NONE		IN I ENAMEL)
		01110/110	50	Horazon				0.112		Hone	5202 (	
BE DE	EARINGS ODE	GREASE SHAFT TYPE		т түре	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL 6206	BALL 6206	POLYREX EM	STAN	DARD IEC	EC NONE		N	ONE	1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		ITROL	SPACE	HEATERS
	NONE	NOT	N	ONE		NONE	N	ONE	F/	ALSE	1	IA
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Xm (c	ohms/ph)	VIBRATI	ON (in/sec)	FL	DAT
	3.829	2.411		.091		9.218		4.801		.150		DE
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VA	RIABLE 10:1	
ES*								ENCODER: NONE NONE			NONE	PPR
	PREPARED BY: DATE:	11/27/2020						BRAKE:	NONE	NON	IE	
FORM: 35		2/27/06				-	UL:	VOLTAGE:		ONE		HZ:

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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 : TCA1P53AE251GAA009

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

Catalog No : R920

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