## PRODUCT INFORMATION PACKET



Model No: TCA0032AE251GAA009

Catalog No: R952

TerraMAX® Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

100L Frame, TEFC





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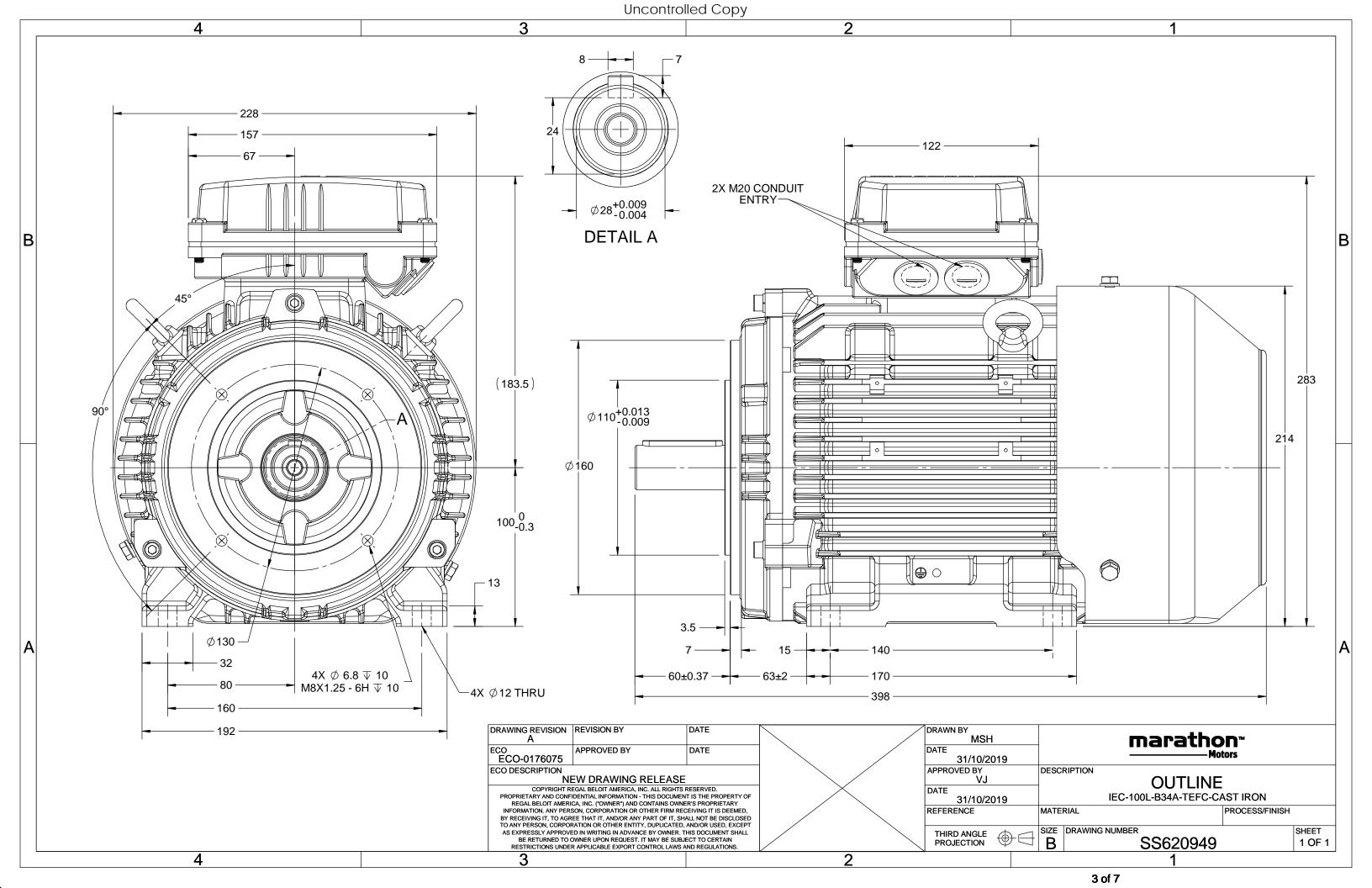
### Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	1765 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 86.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	10.4/5.2 & 9.2/4.6 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	L
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

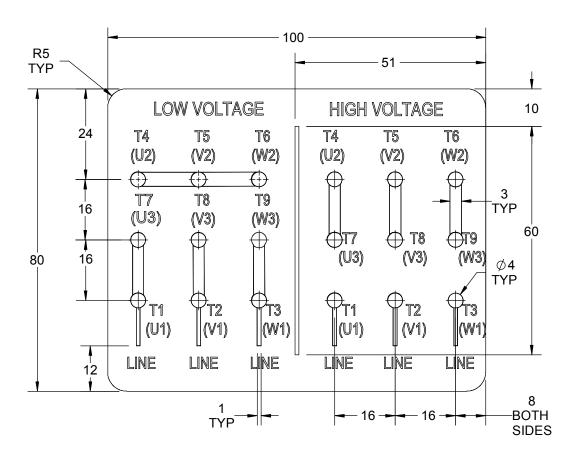
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	3.18 Ohms	Mounting	В3
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
Outline Drawing	SS620949	Connection Drawing	8442000675

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GENERAL TOLERANCE						
LINEAR	>0~6	±0.1				
	>6~30	±0.2				
	>30~120	±0.3				



### NOTES:

- 1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
- 2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
- 3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
- 4. LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

DRAWING REVISION B	REVISION BY NIV	DATE 05/03/2019		DRAWN BY NIV	REGAL Regal Beloit Ame	orioo Ino			
ECO-0162986	APPROVED BY JAY	DATE 05/03/2019		DATE 29/01/2019	REGAL Regal Beloit Ame	erica, iric.			
ECO DESCRIPTION			] \ /	APPROVED BY	DESCRIPTION				
UPDATED DRAWING				JAY	CONNECTION D	IAGRAM			
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REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY			29/01/2019	3 22/100 31/11/ 33/11					
INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,			REFERENCE	MATERIAL	PROCESS/FINISH				
	EE THAT IT, AND/OR ANY PART OF IT, SH								
	ATION OR OTHER ENTITY, DUPLICATED  O IN WRITING IN ADVANCE BY OWNER.			THIRD ANGLE	SIZE DRAWING NUMBER	SHEET			
BE RETURNED TO C	OWNER UPON REQUEST. IT MAY BE SUB	JECT TO CERTAIN		PROJECTION	A 8442000675				
RESTRICTIONS UNDER	R APPLICABLE EXPORT CONTROL LAWS	AND REGULATIONS.	V	V	<u> </u>	۱ ۵۰			



# **TerraMAX**<sup>™</sup>



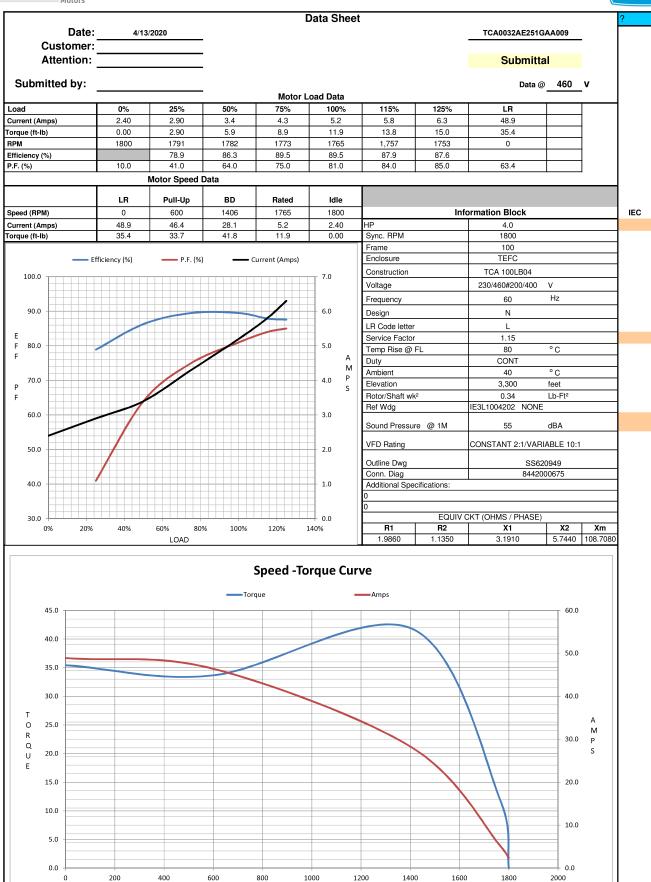
					CEF	RTIFICATION DATA SI	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:				
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000675 SS620949 IE3L1004202	NONE				CUSTO	CAT #: MER PART #: MOUNTING:	TCA0032AE251G	AA009 R952			
НР	кw	SYNC RPM		. RPM	PICAL	MOTOR PERFORMA FRAME			TYPE	KVA CO	NDE .	DESIGN	
		-					ENCLOSURE			KVA CODE			
4	3.0	1800	1	765		100L		EFC	TCA 100LB04	LL		N	
<b>PH</b> 3	<b>HZ</b> 60/50	VOLTS 230/460#200/400		MPS 2&9.2/4.6	l	START TYPE LINE OR INVERTER		<b>UTY</b> ONT	INSL F	<b>S.F.</b> 1.15	<b>AMB</b> (° C) 40	ELEV.(Ft.) 3300	
	F.L. EFF		3/4 LD EFF	89.5		1/2 LD EFF	86.3	GTD EFF		ELECT. T			
	F.L. PF	81.0	3/4 LD PF	75.0		1/2 LD PF 64.0 87.9				SQ CAGE INV RATED			
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE	B.D. TOR		RQUE F.L. RISE		(° C)		
11.9	LB-FT	48.9		35.4	LB-FT	297%	41.8 <b>LB-FT</b> 351% 80						
	PRESSURE @ 3 FT.	SOUND POWER		ROTOR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>				rs/Hour	APROX.	MOTOR WGT	
55	dBA	64 <b>dBA</b>	0.34	LB-FT <sup>2</sup>	0.34	LB-FT <sup>2</sup>	10	SEC.		2	48	KG.	
			MOUNT		*** SU	PPLEMENTAL INFORMA							
DE BRACKET TYPE ODE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER			INT		
FT-F	LANGE-130	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	NAMEL)	
DE BE	EARINGS ODE	GREASE	SHAF	Т ТҮРЕ	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL		
BALL 6206	BALL 6206	POLYREX EM	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE	s BRG RTD's NONE			MISTORS ONE		ONTROL SPACE FALSE		<b>HEATERS</b>	
R1	R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT				
	1.986	1.135		.191	5.744		108.708		0.150		ODE		
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF NONE	RIABLE 10:1		
E S *								ENCODER: NONE NONE			NONE	PPR	
PREPARED BY:								FT-LB:	NONE	NON NA	E		
FORM: 3531 REV_4 2/27/06						VOLTAGE:         NONE         HZ:           UL:         V - LI,ME-INS,CONST UL REC							











REGAL

RPM



# **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: TCA0032AE251GAA009

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

Catalog No: R952 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. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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