## PRODUCT INFORMATION PACKET



Model No: TCA0032AE231GAA009

Catalog No: R852

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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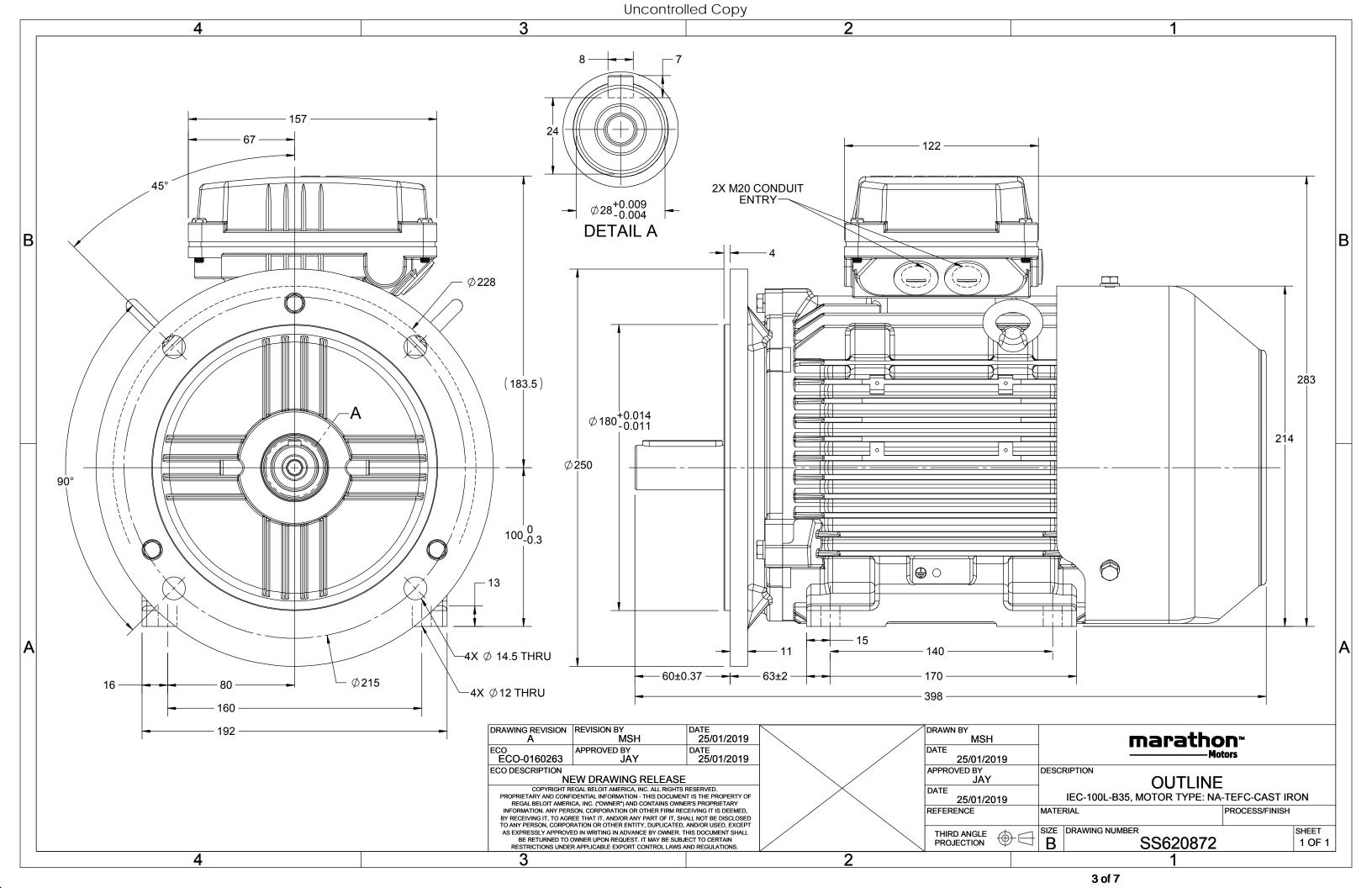
### Nameplate Specifications

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

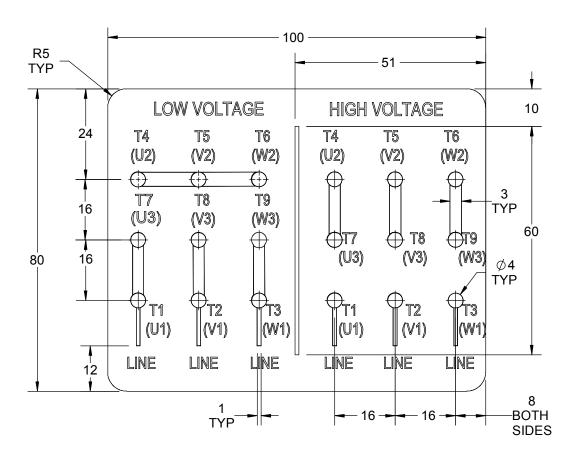
## **Technical Specifications**

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
Connection Drawing	8442000675	Outline Drawing	SS620872

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GENERAL TOLERANCE						
	>0~6	±0.1				
LINEAR	>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 DIAGR				
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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>



									P.O. BOX 8003				
							WAUSAU, WI 54401-8003						
									PH. 715-675-331				
									FII. 713-073-331	'			
									DATA VOLTS:	460			
					CE	RTIFICATION DATA SI	HEET						
					CL	THE ICATION DATA SI							
CUSTOME				_				OMER P.O. #:					
ORDER #:							REFEREN	CE MODEL #:	TCA0032AE231G	AA009			
CONN. DIA	AGRAM:	8442000675						CAT #:	F	R852			
OUTLINE:		SS620872					CUSTO	MER PART #:					
WINDING:		IE3L100420	2 NONE	1				MOUNTING:	E3			•	
		IL3L 100420.	2 NONE					MODIVING.	13				
SPEED:		_											
				T'	YPICAL	. MOTOR PERFORMA	NCE DA	ATA					
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN	
4	3.0	1800		1765		100L	T	EFC	TCA 100LB04	L		N	
PH	HZ	VOLTS	Α	MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	10.4/5	.2&9.2/4.6		LINE OR INVERTER	С	ONT	F	1.15	40	3300	
⊢	00/00	200/100//200/100	10.170	.200.271.0		EINE OIT III EIT				0		0000	
<b>-</b>	F. FFF	00.5	0/4 L D EEE	00.5		1015 555	20.0	0TD FFF		FI FOT T	VDE		
	F.L. EFF		3/4 LD EFF			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	QUE	F.L. RISE	(° C)		
	LB-FT	48.9		35.4	LB-FT	297%	41.8	LB-FT	351%	80	i ,		
11.5	LD-1 1	40.5		00.4		23170	41.0	LD-11	00170	- 00			
SOLIND	PRESSURE @ 3		_										
I SOUND !	FT.	SOUND POWER	POT.	OR WK²		MAX. LOAD WK <sup>2</sup>	CAEEC	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT	
				LB-FT <sup>2</sup>	0.34	LB-FT <sup>2</sup>			JIAN				
55	dBA	64 dBA	0.34	LB-F1-	0.34	LB-F1	10	SEC.		2	49	KG.	
			•										
					*** SU	PPLEMENTAL INFORMA							
			MOUNT					ARDOUS					
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEI		SEVERE DUTY		CATION	DRIP COVER	SCREENS		INT	
FF-F	LANGE-215	STANDARD	B3	HORIZON	ITAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)	
		•	•	•								·	
BI	EARINGS												
DE .	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME	MATERIAL	
BALL		-											
	BALL	POLYREX EM	POLYREX EM STANDAR		ARD IEC NONE		NONE		1045 HOT ROLLED (C-204)		CAST	IRON .	
6206	6206									. , ,			
											CDACE	LIEATEDO	
THE	RMOSTATS	PROTECTORS	WDG	G RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS	
	NONE	NOT		IONE		NONE		IONE		ALSE		NA .	
	HONE	1101		IONE		NONE		IOI4L		TLOL		W/ C	
	/ . b / . b	D0 (-1(-1-)	T 74.6	t		V0 (-1(-1-)	V /	1 / . 1. \	VIDDAT	ON (* - ( )			
R1 (ohms/ph) R2 (ohms/ph)		X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
	1.986	1.135	3	3.191		5.744	10	8.708	C	.150	0	DE	
*													
N								INV	FRTER TOROUE:	CONSTANT 2:1/VAF	RIABLE 10:1		
Ö							INV. HP SPEED RANGE: NONE						
								1144.111	SFEED NAME.				
Т													
E								ENCODER:	NONE				
s								NONE					
*								NONE			NONE	PPR	
1								BRAKE:	NONE				
l	DDEDARES ST										-		
l	PREPARED BY:								NONE	NON	E		
1	DATE:	11/12/2020						FT-LB:		NA			
1								VOLTAGE:		ONE		HZ:	
FORM: 35	FORM: 3531 REV_4 2/27/06							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: TCA0032AE231GAA009

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

Catalog No : R852
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:

<u>Authorized Representative in the Community:</u>

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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