## PRODUCT INFORMATION PACKET



Model No: TCA2P23AE211GAA009

Catalog No: R323B

Cast Iron Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 112M Frame, TEFC





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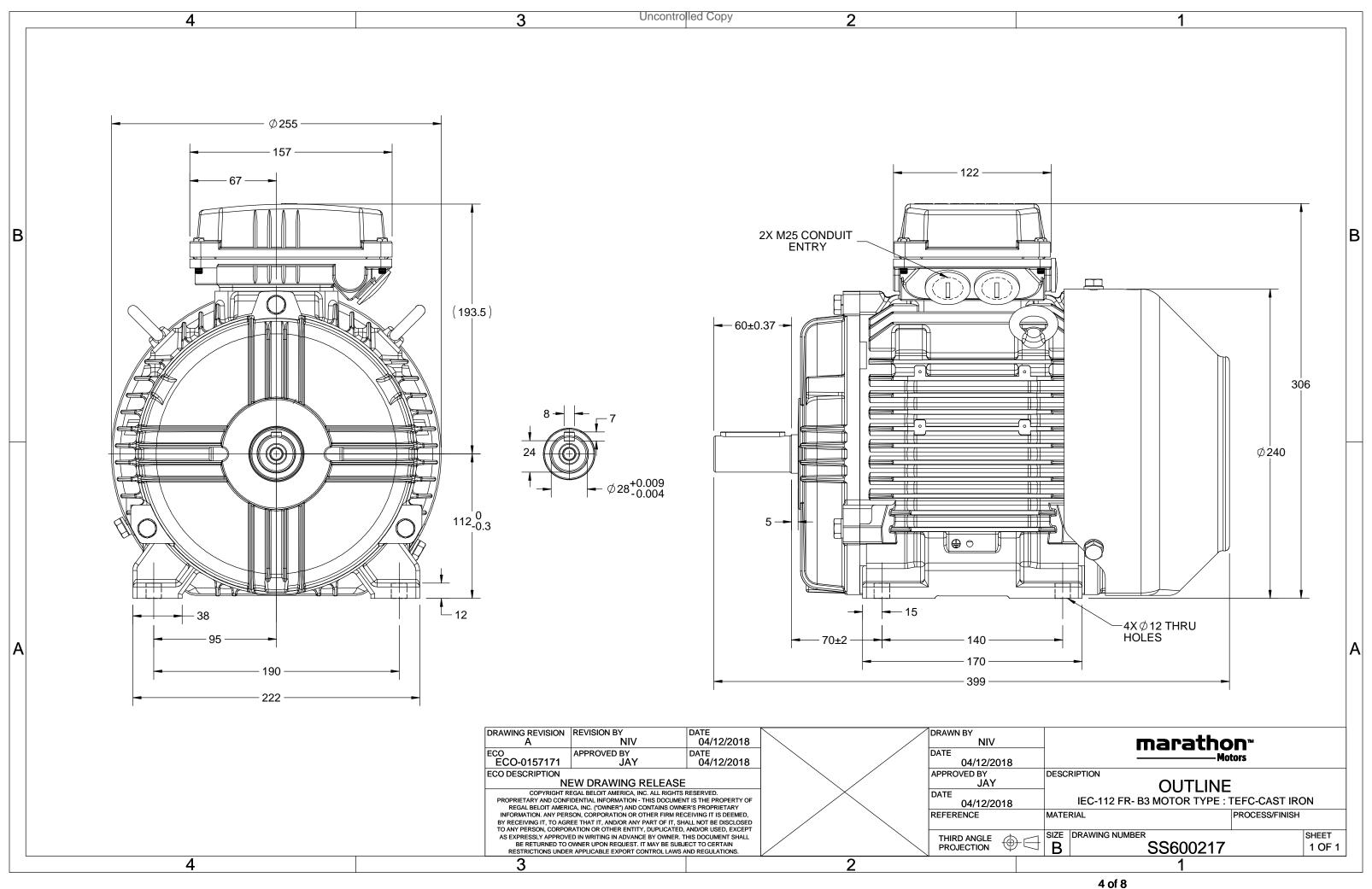
## Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 200/400 V
Speed	1170 & 980 rpm	Service Factor	1.15 & 1.15
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 82.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.8/4.4 & 8.2/4.1 A	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	М
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

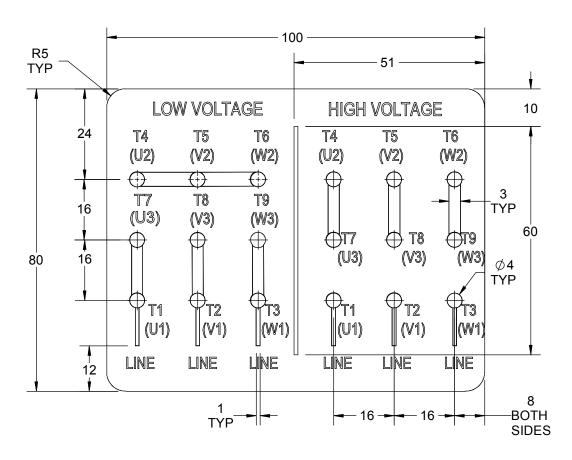
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	3.31 Ohms	Mounting	B3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	15.71 in
Frame Length	6.85 in	Shaft Diameter	1.102 in
Shaft Extension	2.36 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	8442000675	Outline Drawing	SS600217

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GENER	AL 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 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>



									P.O. BOX 8003				
							WAUSAU, WI 54401-8003						
									PH. 715-675-331	1			
									DATA VOLTS:	460			
					CEF	RTIFICATION DATA SI	HEET						
CUSTOME	R:			_				OMER P.O. #:					
ORDER #:							REFERENC	CE MODEL #:	TCA2P23AE211G			_	
CONN. DIA	AGRAM:	8442000675						CAT #:	R	323B			
OUTLINE:		SS600217						MER PART #:					
WINDING:		IE3L1126201	NONE	1				MOUNTING:	F3				
SPEED:													
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA					
НР	кw	SYNC RPM		. RPM		FRAME	ENG	OCUPE	TYPE	10/4 0	205	DESIGN	
ПР	I NVV	STING REWI	FL	. KFWI		FRAIVIE	ENCLOSURE		ITFE	RVAC	KVA CODE		
3	2.2	1200	1	1170		112M	Т	EFC	TCA 112MA06	м		N	
	•		•						,			,	
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	8.8/4.	4&8.2/4.1		INE OR INVERTER	C	ONT	F	1.15	40	3300	
	F.L. EFF	00.5	3/4 LD EFF	89.5		1/2 LD EFF	83.4	GTD EFF	1	ELECT. T	VDE		
	F.L. EFF		3/4 LD EFF						SQ CAGE IN\				
	F.L. PF	70.0	3/4 LD PF	61.0		1/2 LD PF	50.0	87.9		SQ CAGE IN	RATED		
	. TORQUE	LR AMPS @	460 V	l	L.R. TORQUE		B.D. TORG		RQUE F.L. RISE		(° C)	1	
13.5		38.2	400 V	43.6 LB-FT 323%		51.4	LB-FT	381%	80 80	. ( 0)			
10.0	LD-11	50.2		40.0	LD-1 1	02070	01.4	LD-1 1	30170		1		
SOUND	PRESSURE @ 3												
	FT.	SOUND POWER		ROTOR WK <sup>2</sup> MAX		MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT	
55	dBA	64 dBA	0.50	LB-FT <sup>2</sup>	0.5	LB-FT <sup>2</sup>	15	SEC.		2	58	KG.	
			*										
			MOUNT		*** SU	PPLEMENTAL INFORMA							
DE BRACKET TYPE ODE BRACKET T		ODE BRACKET TYPE	MOUNT	TYPE MOTOR ORIENT		ENTATION SEVERE DUTY		RDOUS ATION	DRIP COVER SCREENS		PAINT		
	ANDARD	STANDARD	B3	HORIZO			NONE		NO NO	NONE BLUE (EN			
- 01	AUDAIND	OTANDAND		HORIZO	141771	110		ONE	110	NONE	DEGE (	LI WILL)	
В	EARINGS												
DE	ODE	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL		
BALL	BALL	POLYREX EM	CTANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
6306	6206	FOLTREXEM	STAIN	DAND IEC		NONE	IN	ONE	1045 HOT K	OLLED (C-204)	CASI	IRON	
											SPACE	HEATERS	
	RMOSTATS	PROTECTORS	WDG RTD's		BRG RTD's		THERMISTORS		CONTROL				
	NONE	NOT	N	NONE		NONE		ONE	FALSE		NA		
D4	(-b(-b)	R2 (ohms/ph)	V4 (-	h ( h-)		VO (-h(-h)	V /-	h(b-)	VIDDAT	ION (i=/)		047	
K1	(ohms/ph) 1.986	1.702	X1 (ohms/ph) 6.146		X2 (ohms/ph) 7.469		Xm (ohms/ph) 94.454		VIBRATION (in/sec) 0.150		FLOAT ODE		
	1.900	1.702		.140		7.409	94	1.404		.130		DE .	
*													
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1		
0						INV. HP SPEED RANGE: NONE							
T								INT. III OI EED INTIGE: TOTAL					
E								ENCODER:	NONE				
s								NONE					
*								NONE			NONE	PPR	
								BRAKE:	NONE				
PREPARED BY:								NONE	NON	E			
	DATE:	11/16/2020						FT-LB:		NA			
							VOLTAGE:		ONE		HZ:		
FORM: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC							





30.0

20.0

10.0

0

200

400

600

RPM







Μ

20.0

15.0

10.0

5.0

0.0

1400

1000

1200

800



# **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: TCA2P23AE211GAA009

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

Catalog No: R323B

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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