## PRODUCT INFORMATION PACKET



Model No: TCA2P23AE231GAA009

Catalog No: R823

TerraMAX® 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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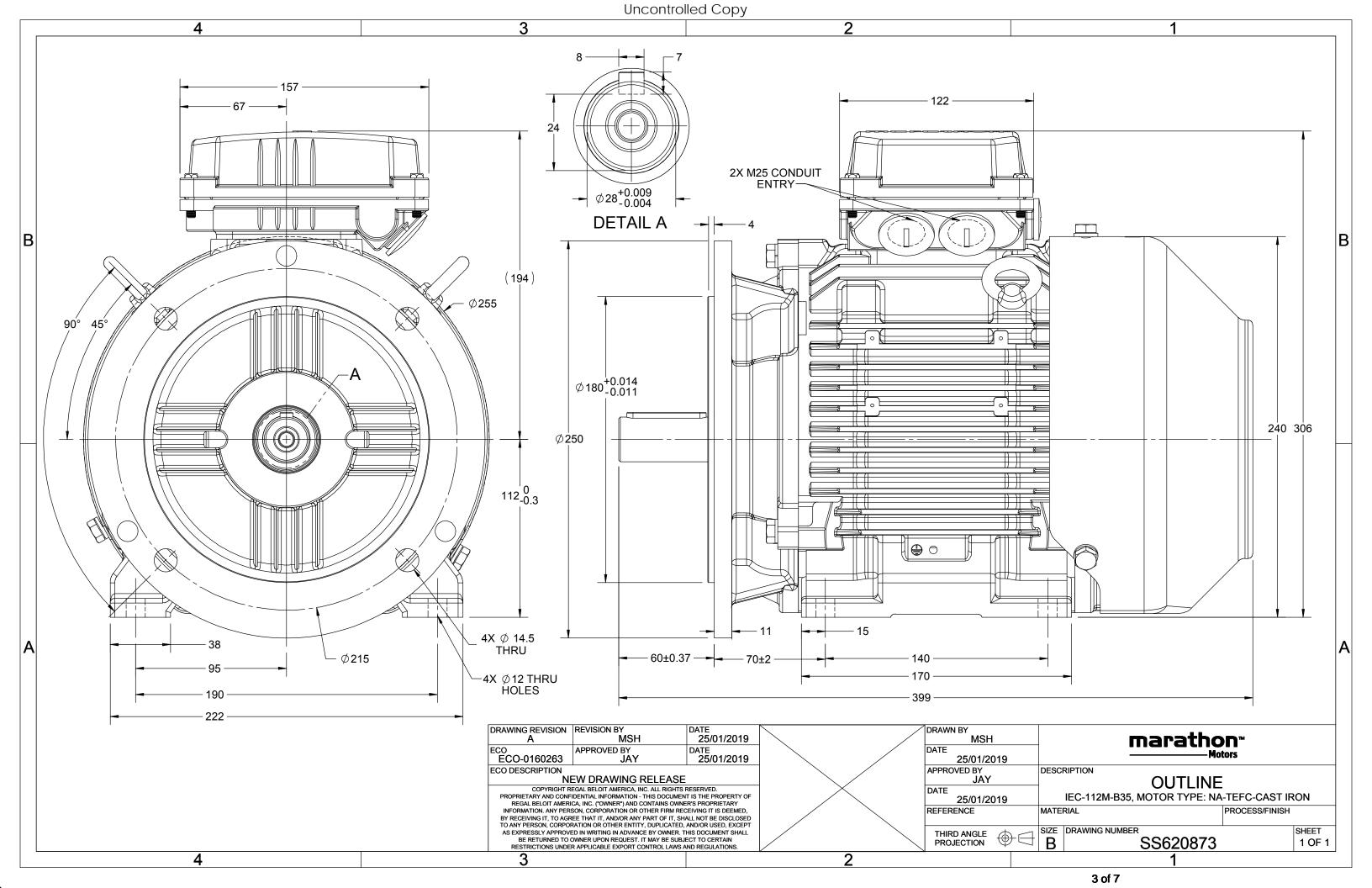
### Nameplate Specifications

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

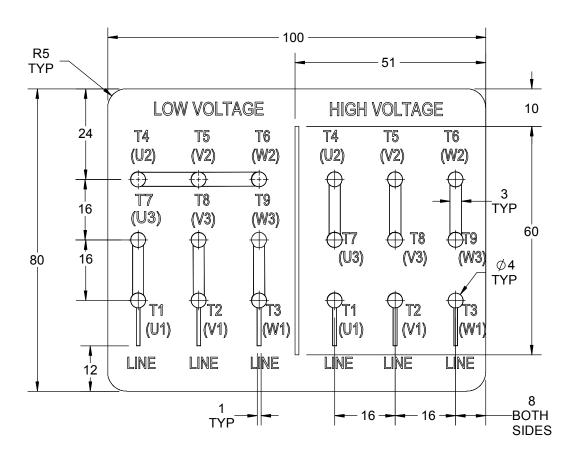
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	3.31 Ohms	Mounting	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	SS620873

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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 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. 715-675-3311						
									DATA VOLTS:	460			
	CERTIFICATION DATA SHEET												
CUSTOMER:								OMER P.O. #:					
ORDER #:		8442000675					REFERENC	E MODEL #: CAT #:	TCA2P23AE231G	AA009 8823		-	
OUTLINE:		SS620873					CUSTO	MER PART #:	Г				
WINDING:		IE3L1126201	NONE	1				MOUNTING:	F3				
SPEED:				-	VDIOAL	MOTOR REPEORMA	NOE DA	<b>-</b> 4					
l	l				PICAL	MOTOR PERFORMA							
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENCL	OSURE	TYPE	KVA CC	DDE	DESIGN	
3	2.2	1200		1170		112M	Т	EFC	TCA 112MA06	M		N	
PH	HZ	VOLTS		MPS		START TYPE	DUTY		INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	8.8/4.	4&8.2/4.1	l	INE OR INVERTER	С	ONT	F	1.15	40	3300	
	F.L. EFF	80.5	3/4 LD EFF	89.5		1/2 LD EFF	83.4	GTD EFF	1	ELECT. TYPE			
	F.L. PF		3/4 LD PF			1/2 LD PF				SQ CAGE INV			
	TORQUE LB-FT	LR AMPS @ 38.2	460 V	40.0		TORQUE	F4.4	B.D. TOR			(° C)		
13.5	LB-F1	38.2		43.6	LB-FT	323%	51.4	LB-FT	381%	80			
SOUND	SOUND PRESSURE @ 3 FT. SOUND POWER ROTOR WK2		OR WK²	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	0.5 <b>LB-FT<sup>2</sup></b> 15 <b>SEC</b> .		2		60 <b>KG</b> .			
			•		*** SII	PPLEMENTAL INFORMA	TION ***						
			MOUNT			HAZARDOUS		DDID COVED CORES					
	LANGE-215	ODE BRACKET TYPE STANDARD	TYPE B3	MOTOR ORIE HORIZO		SEVERE DUTY NO	LOCATION NONE		NO NO	SCREENS NONE	PAINT BLUE (ENAMEL)		
	LANGE-213	STANDARD		HONZO	INTAL	NO	14	ONL	NO	NONE	DEOL (I	_INAIVILL)	
	EARINGS	GREASE	SHA	SHAFT TYPE SPECIA		SPECIAL DE	AL DE SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL		
DE BALL	ODE BALL										TRAME MATERIAL		
6306	6206	POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
											SPACE	HEATERS	
THERMOSTATS PR		PROTECTORS NOT	WDG RTD's NONE		BRG RTD's NONE		THERMISTORS NONE		CONTROL FALSE			NA .	
	HOHE	1101		0.112		HOILE		0.1.2		100			
R1	(ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
	1.986	1.702	[ 6	1.146		7.469	94	1.454	0	.150	0	DE	
*													
N							INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1						
0 T								INV. HI	SPEED RANGE:	NONE			
E							FUGORED NONE						
S S						ENCODER: NONE NONE							
							NONE			NONE	PPR		
							BRAKE:						
	PREPARED BY:						NONE NONE						
1	DAIL. HEHEDEO						FT-LB: NA VOLTAGE: NONE HZ:						
FORM: 35	FORM: 3531 REV_4 2/27/06							UL: V - LI,ME-INS,CONST UL REC					

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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: TCA2P23AE231GAA009

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

Catalog No : R823

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. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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