## PRODUCT INFORMATION PACKET



Model No: TCA7P51AE231GAA009

Catalog No: R830

TerraMAX® Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

132S Frame, TEFC





Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E



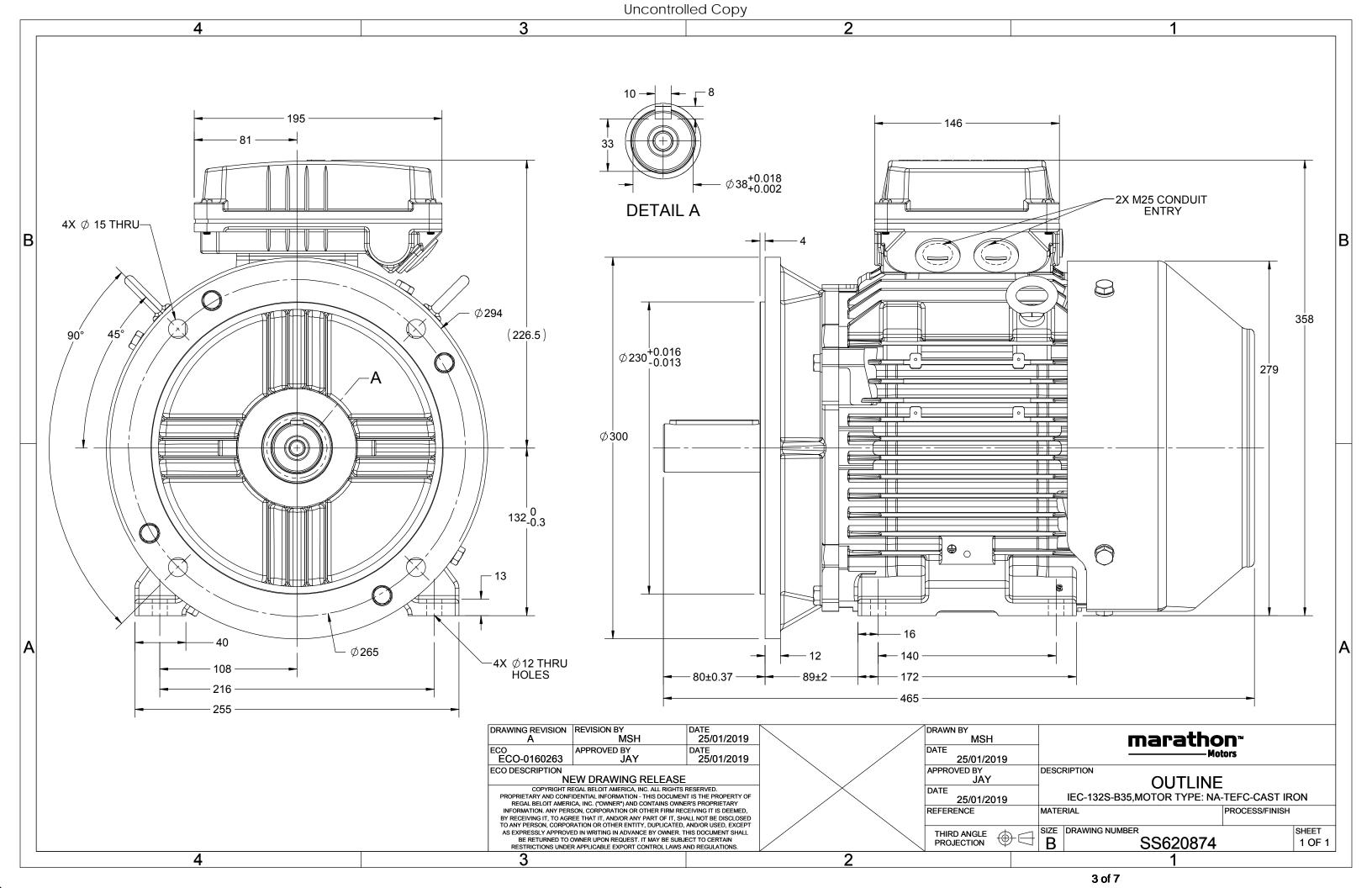
### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp				
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 200/400 V				
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15				
Frame	132S	Enclosure	Totally Enclosed Fan Cooled				
Thermal Protection	No Protection	Efficiency	90.2 & 89.2 %				
Ambient Temperature	40 °C	Frequency 60 & 50 Hz					
Current	23.8/11.9 & 21/10.5 A	Power Factor	88				
Duty	Continuous	Insulation Class	F				
Design Code	N (IEC)	KVA Code	J				
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208				
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	2	Rotation	Reversible			
Resistance Main	1.24 Ohms	Mounting	B35			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	38.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620874	Connection Drawing	8442000715			

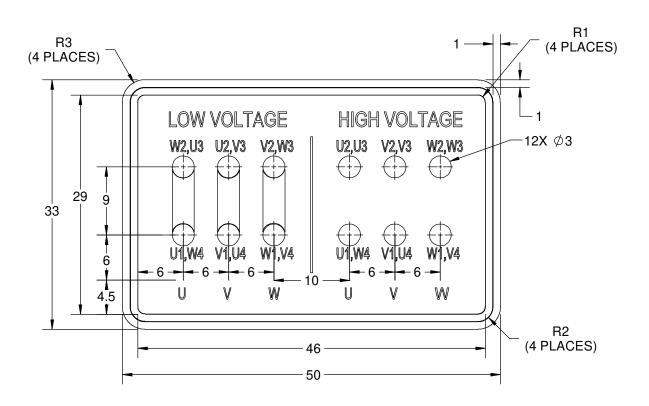
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/21/2024



PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

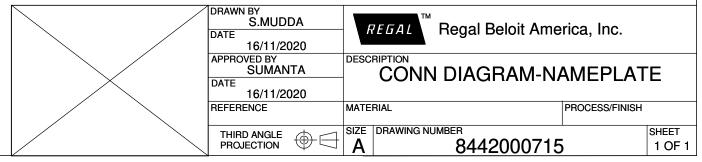
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



#### NOTES:

- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. 1.
- 2.
- THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 4. 3mm SIZE
- OTHER LETTER FONT SIZE SHOULD BE 3.5mm. 5.

8WD.442.2017





# **TerraMAX**<sup>™</sup>



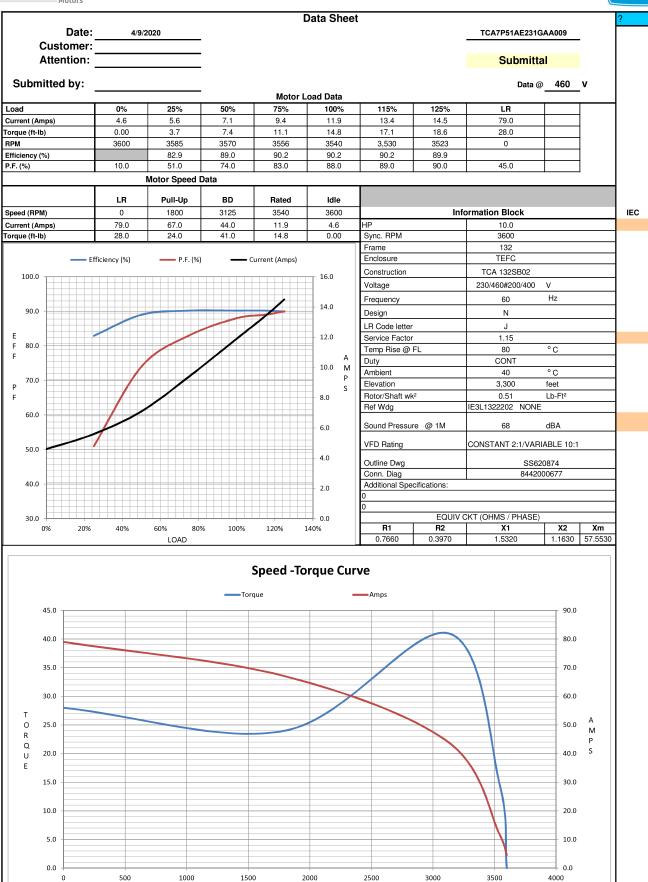
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
									PH. 715-675-331	1		
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA S	HEET					
	_											
CUSTOME ORDER #:								OMER P.O. #:	TCA7P51AE231G	A A O O O		
CONN. DIA		8442000677					KEFEKEN	CAT #:		R830		-
OUTLINE:		SS620874					CUSTO	MER PART #:	-	(030		
WINDING:		IE3L1322202	NONE	1				MOUNTING:	F3			
SPEED:		ILJL 1322202	NONE					WOON TING.	13			
0. 222.				т	YPICAL	MOTOR PERFORMA	NCF DA	ТΔ				
	1			-								
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
10	7.5	3600	١,	3540		132S	т	EFC	TCA 132SB02	J		N
10	7.5	3000		5540		1323		EFC	TCA 1323B02	J		IN
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	23.8/11	.9&21/10.5	l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	90.2		1/2 LD EFF	89.0	GTD EFF		ELECT. T		
	F.L. PF	88.0	3/4 LD PF	83.0		1/2 LD PF	74.0	88.7		SQ CAGE IN\	/ RATED	
	. TORQUE	LD AMDC @	400.1/	I		TOPOUE		D.D. TOD	DUE .	E L DIOE	· (° C)	1
	LB-FT	LR AMPS @ 79.0	460 V	60 V L.R. TORQUE 28.0 LB-FT 189%		B.D. TORO 41.0 LB-FT		277% F.L. RISE 277% 80		= (* C)		
14.0	LB-F1	79.0		20.0	LD-F1	10970	41.0	LD-FI	21170	60		
SOUND F	PRESSURE @ 3											
	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STAR	rs/Hour	APROX.	MOTOR WGT
72	dBA	81 <b>dBA</b>	0.51	LB-FT <sup>2</sup>	0.51	LB-FT <sup>2</sup>	10	SEC.		2	88	KG.
			•									
		ı	MOUNT	1	*** SU	PPLEMENTAL INFORMA		BDOHE			1	
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE			HAZARDOUS LOCATION		DRIP COVER	SCREENS PA		INT	
	LANGE-265	STANDARD	B3	HORIZONTAL NO		NONE		NO	NONE	BLUE (ENAMEL)		
				!					!			,
В	EARINGS	GREASE	SHVI	FT TYPE		SPECIAL DE	SDEC	IAL ODE	SHAFT	MATERIAL	EDAME	AATERIAI
DE	ODE	CITEAGE	Ona		SPECIAL DE		SPECIAL ODE		OTAL I MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6308	6208											
		I							1		1	
TUE:	RMOSTATS	PROTECTORS	WD	2 DTD'e		BRG RTD's	THER	MISTORS		NTROL	SPACE	HEATERS
	NONE	NOT				NONE	NONE		FALSE		NA	
	110.112			0112		NONE	.,,	0.12		LOL		
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	(ohms/ph) X2 (ohms/ph)		Xm (c	hms/ph)	VIBRATION (in/sec)		FLOAT			
0.766 0.397		1	1.532 1.163		57	7.553	0.150		ODE			
					-				•		-	
*												
N						INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1						
	0						INV. HI	SPEED RANGE:	NONE			
T _									NONE			
E S								ENCODER: NONE	NONE			
, ,								NONE			NONE	DDD
								BRAKE:	NONE		NONE	1110
PREPARED BY:				NONE NONE								
	DATE:							FT-LB:		NA NA		
							VOLTAGE: NONE 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: TCA7P51AE231GAA009

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

Catalog No: R830
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:** 

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. Cers

Julian Clark Marketing Engineer