## PRODUCT INFORMATION PACKET



Model No: TCA7P52AE231GAA009

Catalog No: R831

TerraMAX® Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

132M Frame, TEFC





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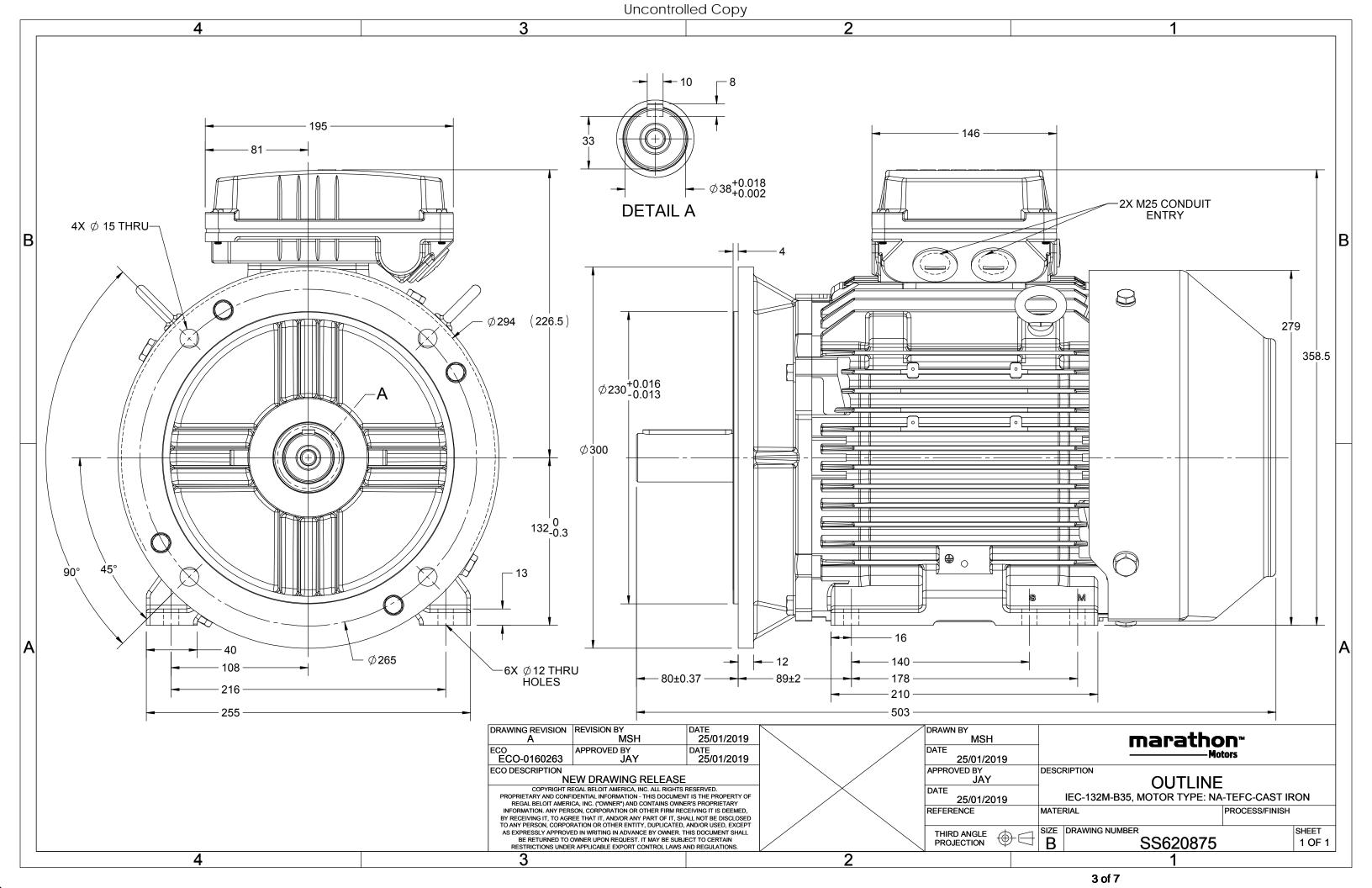
### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 89.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	25.4/12.7 & 22.6/11.3 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	К
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	4	Rotation	Reversible			
Resistance Main	1.05 Ohms	Mounting	В3			
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	SS620875	Connection Drawing	8442000715			

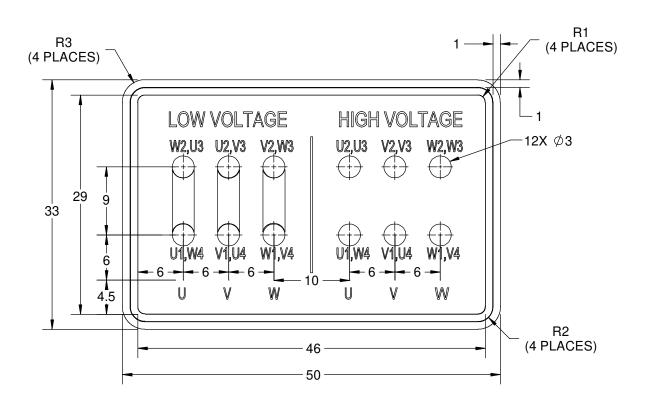
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

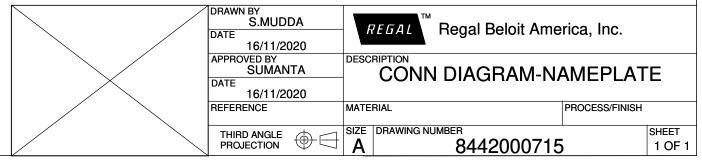
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



#### 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>



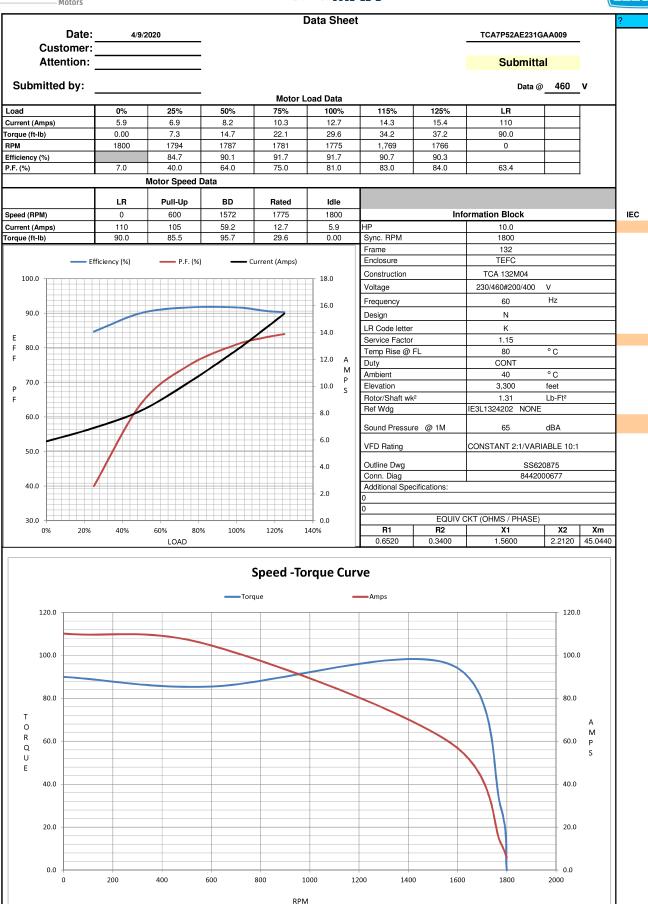
									P.O. BOX 8003				
					WAUSAU, WI 54401-8003								
							PH. 715-675-3311						
									DATA VOLTS:	460			
					CEF	RTIFICATION DATA S	HEET						
CUSTOME	:D-						CUSTO	OMER P.O. #:					
ORDER #:									TCA7P52AE231G	AA009		-	
CONN. DIA		8442000677						CAT #:		R831		-	
OUTLINE:		SS620875					CUSTO	MER PART #:					
WINDING:		IE3L1324202	NONE	1				MOUNTING:	F3			•	
SPEED:													
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA					
НР	кw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN	
40	7.5	1000		775		40014	_	FF0	TO 4 40014404			N	
10	7.5	1800		775		132M		EFC	TCA 132MA04	К		IN .	
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	25.4/12.	7&22.6/11.3	Į į	INE OR INVERTER	С	ONT	F	1.15	40	3300	
		I I											
	F.L. EFF		3/4 LD EFF	91.7		1/2 LD EFF				ELECT. T			
	F.L. PF	81.0	3/4 LD PF	75.0		1/2 LD PF	64.0	90.5		SQ CAGE INV	/ RATED		
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE	B.D. TORG		QUE F.L. RISE		(°C)		
	LB-FT	110	100 1	90.0	LB-FT	304%	95.7 <b>LB-FT</b>		323% 80		-( -,		
SOUND	PRESSURE @ 3												
	FT.	SOUND POWER ROTOR WK <sup>2</sup>		DR WK <sup>2</sup> LB-FT <sup>2</sup>		MAX. LOAD WK <sup>2</sup> LB-FT <sup>2</sup>	SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT	
65	dBA	74 dBA	1.31	LB-F1	1.31	LB-F1	10	SEC.		2	101	KG.	
					*** SU	PPLEMENTAL INFORMA	TION ***						
			MOUNT				HAZA	RDOUS					
	ACKET TYPE	ODE BRACKET TYPE	TYPE MOTOR ORI				LOCATION		DRIP COVER SCREENS		PAINT		
FF-F	LANGE-265	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	E (ENAMEL)	
		1							1		_		
DE BI	EARINGS	GREASE	SHA	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL	
BALL	ODE BALL								+				
6308	6208	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT R	ROLLED (C-204)	CAST IRON		
									-		-		
											SPACE	HEATERS	
	RMOSTATS	PROTECTORS		RTD's		BRG RTD's		MISTORS		NTROL			
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	NA .	
D1	(ohme/ph)	R2 (ohms/ph)	Y1 (o	hme/nh)	l	X2 (ohms/ph)	Ym (o	hme/nh)	VIRDAT	ION (in/sec)		OAT	
		0.340	X1 (ohms/ph) 1.560			2.212	Xm (ohms/ph) 45.044		0.150		ODE		
	0.002	0.040	· ·	.000		2.212		7.044				DL	
*													
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1		
0				INV. HI	SPEED RANGE:	NONE							
Т													
E								ENCODER:	NONE				
s								NONE					
*								NONE			NONE	PPR	
					BRAKE: NONE  NONE  NONE  NONE								
PREPARED BY:													
	DATE:	11/21/2020						FT-LB: VOLTAGE:		NA IONE		HZ:	
EORM: 25	31 REV 4	2/27/06					111 /			IONE		HZ:	
FORM: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC							











REGAL



# **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: TCA7P52AE231GAA009

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

Catalog No : R831
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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