## PRODUCT INFORMATION PACKET



Model No: TCA7P53AE231GAA009

Catalog No: R832

TerraMAX® Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

160M Frame, TEFC





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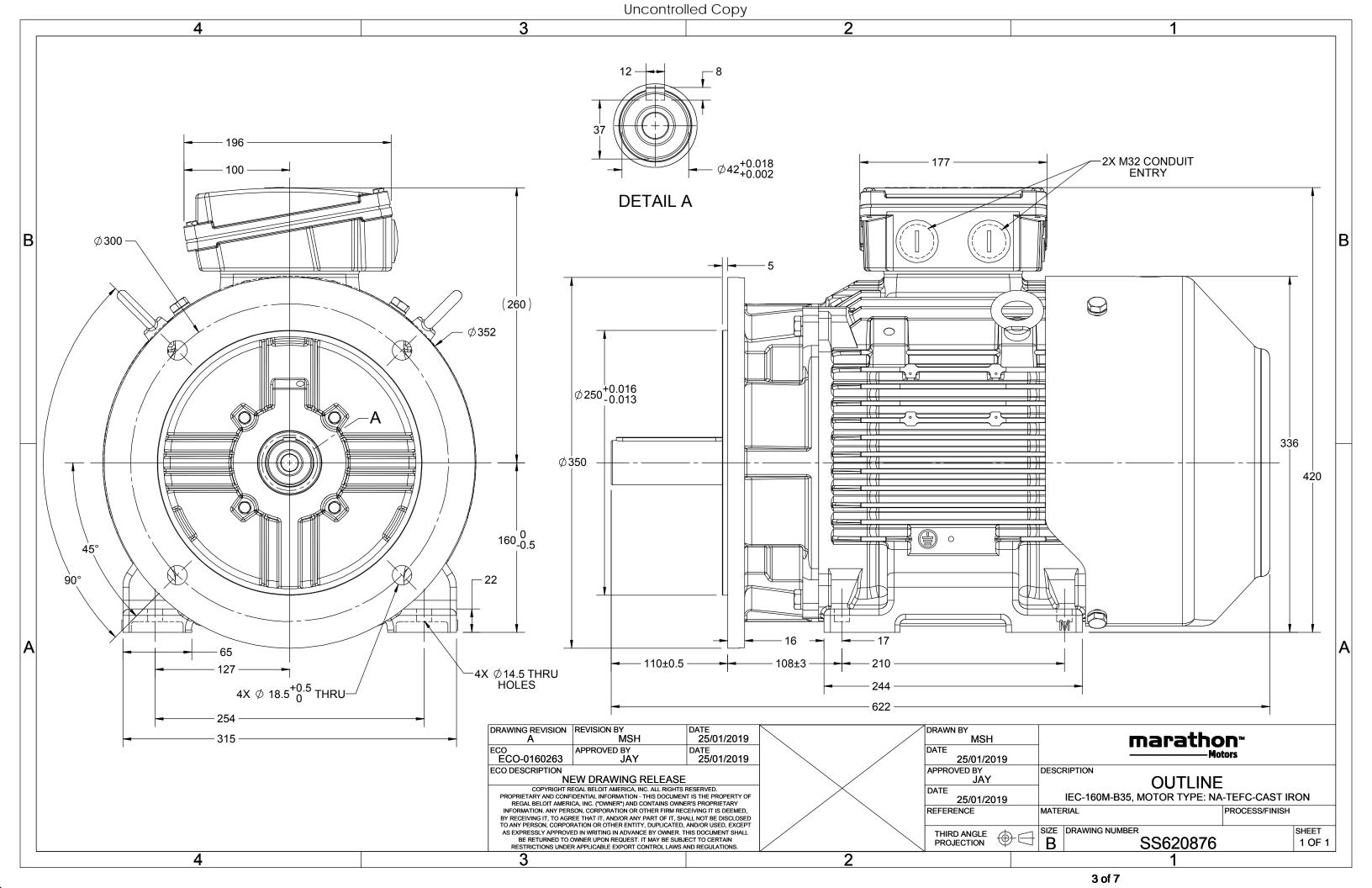
### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 88 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	26.4/13.2 & 23.4/11.7 A	Power Factor	78
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	1.19 Ohms	Mounting	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	42.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620876	Connection Drawing	8442000715			

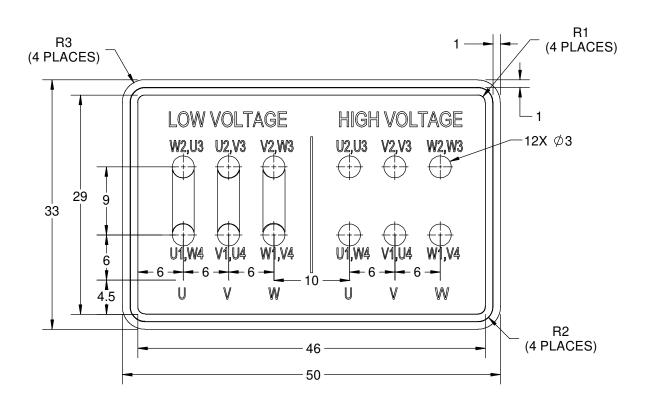
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

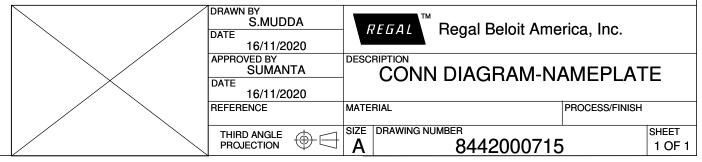
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



#### 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>



					CEF	RTIFICATION DATA S	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS620876 IE3L1606201	NONE	1			CUSTO REFERENC CUSTO	CAT #: MER PART #: MOUNTING:	TCA7P53AE231G	AA009 8832		
НР	кw	SYNC RPM	E1	RPM	YPICAL	MOTOR PERFORMA		LOSURE	TYPE	KVA CC	NDE .	DESIGN
10		-								KVA CODE		
10	7.5	1200	1	180	L	160M	1	EFC	TCA 160MA06	G		N
<b>PH</b> 3	<b>HZ</b> 60/50	VOLTS 230/460#200/400		MPS 2&23.4/11.7	l	START TYPE LINE OR INVERTER		UTY ONT	INSL F	<b>S.F.</b> 1.15	<b>AMB (° C)</b> 40	ELEV.(Ft.) 3300
	F.L. EFF		3/4 LD EFF	91.0		1/2 LD EFF	90.0	GTD EFF		ELECT. T	YPE	
	F.L. PF	78.0	3/4 LD PF	72.0		1/2 LD PF	61.0	89.7		SQ CAGE INV	RATED	
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE	B.D. TORG		QUE F.L. RISE		(° C)	
44.5	LB-FT	77.8		94.1	LB-FT 211% 114 LB-FT		256% 80					
			OR WK²					rs/Hour	APROX.	MOTOR WGT		
56	dBA	65 <b>dBA</b>	3.2	LB-FT <sup>2</sup>	3.2	LB-FT <sup>2</sup>	15	SEC.	2		150	KG.
					*** SU	PPLEMENTAL INFORMA						
	ACKET TYPE			SCREENS	PAINT BLUE (ENAMEL)							
FF-F	LANGE-300	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	NAMEL)
DE BI	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
BALL 6309	BALL 6209	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		WDG RTD's NONE		BRG RTD's NONE				NTROL ALSE	SPACE HEATERS	
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	phms/ph) X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
	0.709 0.369 1.872		2.553 41.867		0.150		ODE					
* N O T								INV. HI	SPEED RANGE:	CONSTANT 2:1/VAR NONE	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
PREPARED BY:												
FORM: 3531 REV_4 2/27/06				VOLTAGE:         NONE         HZ:           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: TCA7P53AE231GAA009

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

Catalog No : R832

Rework No : N/A

### **Directives:**

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

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

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Michael A Logsdon

Created on 09/01/2022

Julian Clark Marketing Engineer