## PRODUCT INFORMATION PACKET



Model No: TCA0151AE251GAA009

Catalog No: R936

TerraMAX® Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

160M Frame, TEFC





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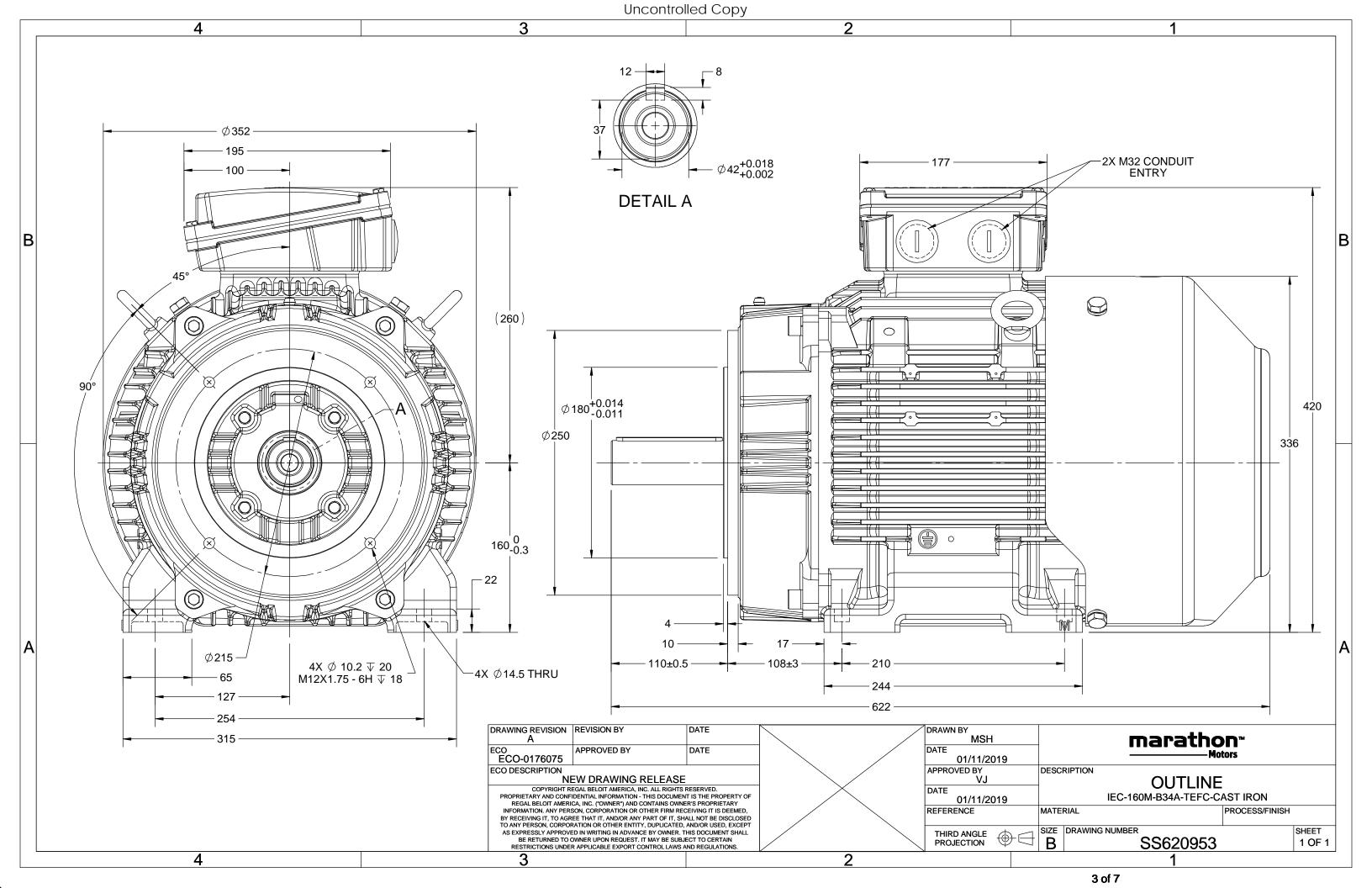
### Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 91.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	45.5/22.8 & 39/19.5 A	Power Factor	91
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	2	Rotation	Reversible		
Resistance Main	.73 Ohms	Mounting	B3		
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	SS620953	Connection Drawing	8442000715		

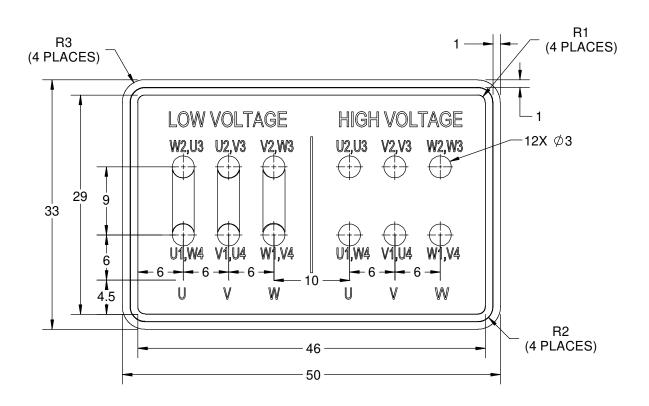
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

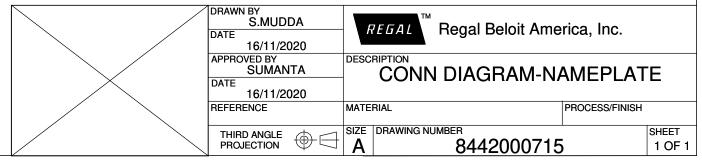
GEOMENTRIC TOLERANCE					
LINEAR DIM	>0~6	±0.1			
	>6~30	±0.2			
	>30~120	±0.3			



#### 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>



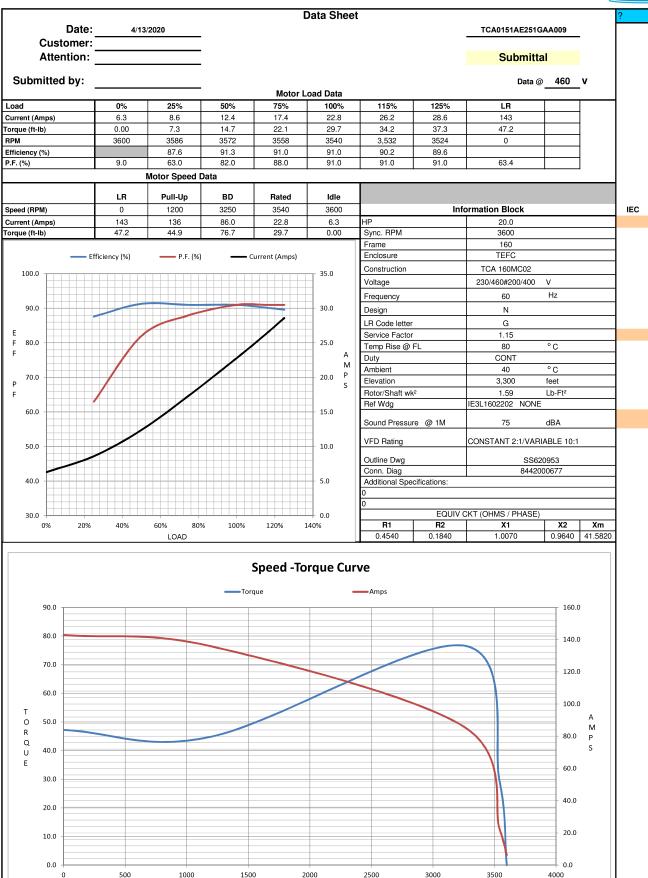
									P.O. BOX 8003				
							WAUSAU, WI 54401-8003						
								PH. 715-675-3311					
									DATA VOLTS:	460			
					CE!	TIFICATION DATA C	HEET						
	CERTIFICATION DATA SHEET												
сиѕтом	ED.						CHST	OMER P.O. #:					
				-									
ORDER #:					REFERENCE MODEL #: TCA0151AE251GAA009					_			
CONN. DI	AGRAM:	8442000677					CAT #: R936						
OUTLINE: SS620953						CUSTOMER PART #:							
						CUSTO							
WINDING:		IE3L1602202 NONE 1 <b>MOUNTING</b> : F3											
SPEED:													
		-		-	VDICAL	MOTOR REDECRIMA	NOT D	т.					
TYPICAL MOTOR PERFORMANCE DATA													
HP	KW	SYNC RPM	FI	RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN	
20	15.00	3600		3540		160M	7	ΓEFC	TCA 160MC02	G		N	
	10.00	0000		3040		100101		1210	10/1 100WIO02	U			
PH	HZ	VOLTS	_ A	MPS		START TYPE		OUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	45.5/22	2.8&39/19.5		LINE OR INVERTER	-	CONT	F	1.15	40	3300	
- 3	00/00	230/400#200/400	40.0/22	0039/19.0		LINE OR INVERTER		ONI	I F	1.10	40	3300	
	F.L. EFF	91.0	3/4 LD EFF	91.0		1/2 LD EFF	91.3	GTD EFF		ELECT. T	YPE		
	F.L. PF		3/4 LD PF			1/2 LD PF	82.0	89.7		SQ CAGE INV			
	F.L. PF	91.0	3/4 LD PF	00.0		1/2 LD PF	82.0	89.7		SQ CAGE INV	RATED		
FI	TORQUE	LR AMPS @	460 V		I R	TORQUE		B.D. TOR	QUE F.L. RISE		(° C)		
			.00 *	47.0							.( 5)		
29.7	LB-FT	143		47.2	LB-FT	159%	76.7	LB-FT	258%	80			
SOUND	PRESSURE @ 3												
	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	START	rs/Hour	APROX.	MOTOR WGT	
				LB-FT <sup>2</sup>	1.59	LB-FT <sup>2</sup>			OTAK				
75	dBA	84 dBA	1.59	LB-F1	1.59	LB-F1	7	SEC.		2	149	KG.	
			•										
					*** SII	PPLEMENTAL INFORMA	TION ***						
		1	MOUNT	1	- 00	I I ELIMENTAL IN ORMA		ARDOUS	1		1		
l			TYPE			SEVERE DUTY			DRIP COVER	SCREENS			
	ACKET TYPE	ODE BRACKET TYPE		MOTOR ORIE				CATION				INT	
FT-F	LANGE-215	STANDARD	B3	HORIZON	NTAL	NO	1	IONE	NO	NONE	BLUE (E	ENAMEL)	
			•	•								·	
_	FARMOS	T											
	EARINGS	GREASE	SHA	FT TYPE		SPECIAL DE	SPE	CIAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL	
DE	ODE			STALL TIPE SPECIAL DE				OTAL MATERIAL TRAIN					
BALL	BALL								1				
		POLYREX EM	STAN	IDARD IEC NONE		NONE 104		1045 HOT R	1045 HOT ROLLED (C-204)		CAST IRON		
6309	6209												
						DDG DTD		MOTORO		ITDOI	SPACE	HEATERS	
IHE	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL			
	NONE	NOT	N	IONE		NONE	1	IONE	F/	ALSE	1	۱A	
		•	•	'					•		•		
D4		D0 (-1(-1-)	V4 /-	hme/nh\		Y2 (ohme/ph)	V /	ohms/ph)	\/IDD AT	ON (in/eac)		OAT	
KI	R1 (ohms/ph) R2 (ohms/ph)		A1 (C	X1 (ohms/ph) X2 (ohms/ph)				VIBRATION (in/sec)		FLOAT			
0.454 0.184					1.007 0.964				0.150		ODE		
	(ohms/ph) 0.454	0.184	1	1.007		0.964	4	1.582	0	.150	0	DL I	
			1	1.007		0.964	4	1.582	0	.150	0	DL	
			1	1.007		0.964	4	1.582	0	.150		DL .	
*			1	1.007		0.964	4					DL	
* N			1	1.007		0.964	4			CONSTANT 2:1/VAF		DE	
N				1.007		0.964	4	INV	ERTER TORQUE:	CONSTANT 2:1/VAF		UL .	
N O			1	1.007		0.964	4	INV		CONSTANT 2:1/VAF		<u> </u>	
N			1	1.007		0.964	4	INV INV. H	ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF		UL.	
N O T				1.007		0.964	4	INV INV. H	ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF		UL .	
N O T E				1.007		0.964	4	INV. HI	ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF		<i></i>	
N O T E S				1.007		0.964	4	INV. HI ENCODER:	ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1		
N O T E				1.007		0.964	4	INV. HI	ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF			
N O T E S				1.007		0.964	4	INV. HI ENCODER: NONE NONE	ERTER TORQUE: SPEED RANGE: NONE	CONSTANT 2:1/VAF	RIABLE 10:1		
N O T E S	0.454	0.184		1.007		0.964	4	INV. HI ENCODER: NONE NONE BRAKE:	P SPEED RANGE: NONE	CONSTANT 2:1/VAF NONE	NONE		
N O T E S	0.454  PREPARED BY:	0.184		1.007		0.964	4	INV. HI ENCODER: NONE NONE BRAKE:	P SPEED RANGE: NONE NONE	CONSTANT 2:1/VAF NONE	NONE		
N O T E S	0.454	0.184		.007		0.964	4	INV. HI ENCODER: NONE NONE BRAKE:	P SPEED RANGE: NONE NONE	CONSTANT 2:1/VAF NONE	NONE		
N O T E S	0.454  PREPARED BY:	0.184		.007		0.964	4	INV. HI ENCODER: NONE NONE BRAKE: FT-LB:	P SPEED RANGE: NONE NONE	CONSTANT 2:1/VAF NONE NONE	NONE	PPR	
N O T E S	0.454  PREPARED BY:	0.184		.007		0.964		INV INV. HI  ENCODER: NONE NONE BRAKE: FT-LB: VOLTAGE:	P SPEED RANGE: NONE NONE	CONSTANT 2:1/VAF NONE	NONE		











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: TCA0151AE251GAA009

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

Catalog No : R936

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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