# **PRODUCT INFORMATION PACKET**

Model No: TCA0452AE231GAA009 Catalog No: R855 TerraMAX® Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 225M Frame, TEFC



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# marathon®

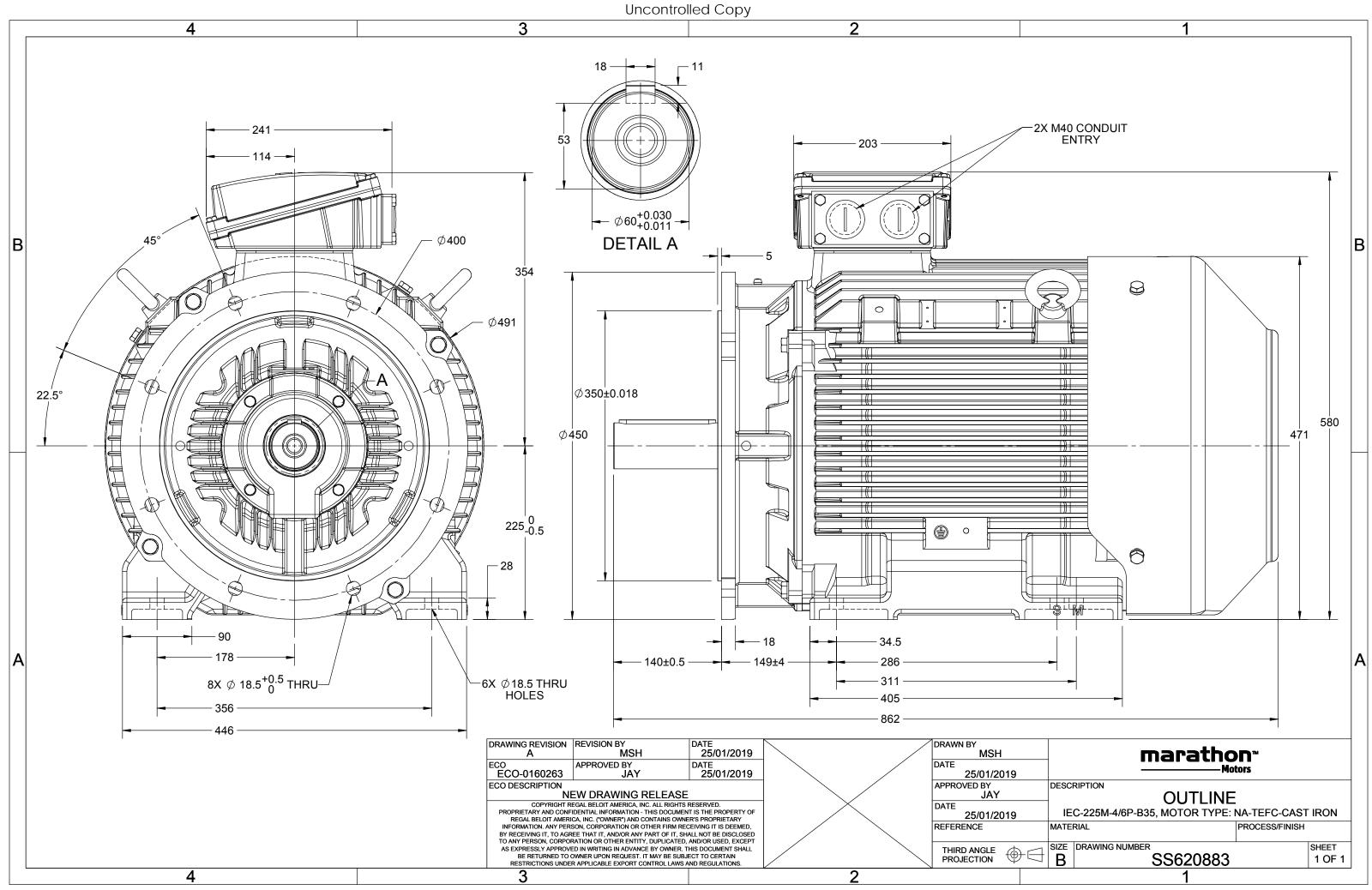
### Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp 230/460 & 200/400 V			
Output KW	45.0 & 37.0 kW	Voltage				
Speed	1785 & 1490 rpm	Service Factor	1.15 & 1.15			
Frame	225M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	95 & 93.9 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	142/71 & 138/69 A	Power Factor	84			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

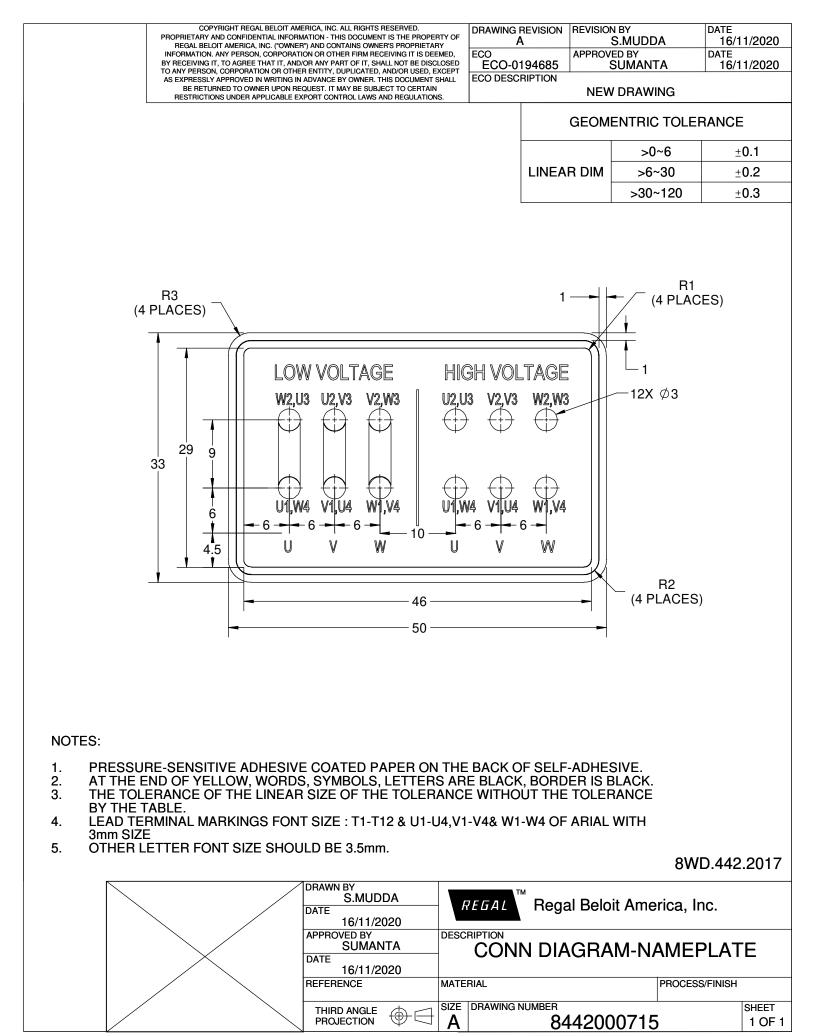
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	4	Rotation	Reversible			
Resistance Main	.09 Ohms	Mounting	B3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	60.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620883	Connection Drawing	8442000715			

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3 of 7



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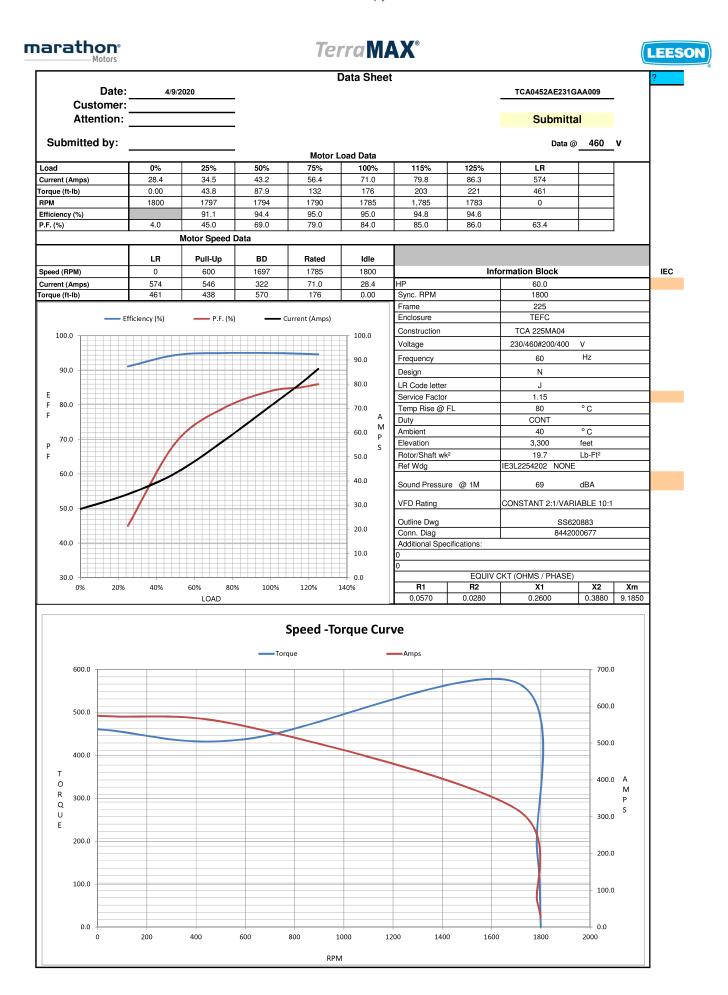




									P.O. BOX 8003			
					WAUSAU, WI 54401-8003 PH. 715-675-3311							
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
					01							
CUSTOME	R:						CUST	OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:			AA009		
		8442000677						CAT #:	F			
		SS620883				CUSTOMER PART #:						
WINDING:		IE3L2254202	NONE	1				MOUNTING:				
SPEED:												
		•		т	YPICAL	MOTOR PERFORMA		ТА				
HP	ĸw	SYNC RPM	FI	. RPM	FRAME		ENC	LOSURE	TYPE	KVA C	DDE	DESIGN
60	45	1800		1785		225M	1	EFC	TCA 225MA04	J		N
РН	HZ	VOLTS	,	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400		1&138/69		LINE OR INVERTER		CONT	F	1.15	40	3300
3	00/30	230/400#200/400	142/7	10(130/09					Г	1.15	40	3300
	F.L. EFF	05.0	3/4 LD EFF	95.0		1/2 LD EFF	94.4	GTD EFF	1	ELECT. T	VDE	
	F.L. PF		3/4 LD EFF 3/4 LD PF			1/2 LD EFF	69.0	94.3		SQ CAGE IN		
	1. <b>L</b> . FI	04.0	3/4 LD FI	13.0		1/2 LD F1	03.0	34.5		SQ CAGE IN	TRAILD	
F.L. TORQUE LR AMPS @ 460 V			L.R. TORQUE		B.D. TOR		QUE F.L. RIS		(° C)			
	LB-FT	574	400 0	461 LB-FT 262%		570	LB-FT	324%				
170	20-11	014		401	20-11	20270	0/0	20-11	02470	00		
SOUND	PRESSURE @ 3								1			
	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
69	dBA	78 dBA	19.7	LB-FT <sup>2</sup>	19.7	LB-FT <sup>2</sup>	15	SEC.		2	468	KG.
			•									
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT				HAZARDOUS					
DE BRACKET TYPE				TYPE MOTOR ORIEN				CATION	DRIP COVER	SCREENS		INT
FF-F	LANGE-400	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	NAMEL)
									1		1	
	EARINGS	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT	MATERIAL	FRAME MATERIAL	
DE	ODE											
BALL	BALL	SG S5-V100	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6313	6213											
		1							1		1	
-	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's	TUED	MISTORS		NTROL	SPACE	HEATERS
	NONE	NOT		IONE		NONE		IONE		ALSE	· · · · ·	IA
	NUNE	NUT		IONE		NONE	N	IONE	<u> </u>	ALSE	r	IA
P1	(ohms/ph)	R2 (ohms/ph)	¥1 (c	hms/ph)		X2 (ohms/ph)	Ym (	ohms/ph)	VIRDAT	ION (in/sec)	EI.	DAT
0.057		0.028		0.260				9.185		.150	ODE	
	0.007	0.020		1.200		0.300		5.105		. 150	0	
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0				INV. HP SPEED RANGE: NONE								
Ť												
E								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
PREPARED BY:				BRAKE: NONE								
							NONE	NON	F			
1	DATE:	11/27/2020						FT-LB:		NA		
							VOLTAGE: NONE HZ					
FORM: 35	31 REV_4	2/27/06				ľ	UL:	V - LI,ME-INS,	CONST UL REC			

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## **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 : TCA0452AE231GAA009

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

Catalog No : R855

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:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer