### **PRODUCT INFORMATION PACKET**

Model No: TCA0452AE211GAA009 Catalog No: R501A 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<sup>®</sup> Motors



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# marathon®

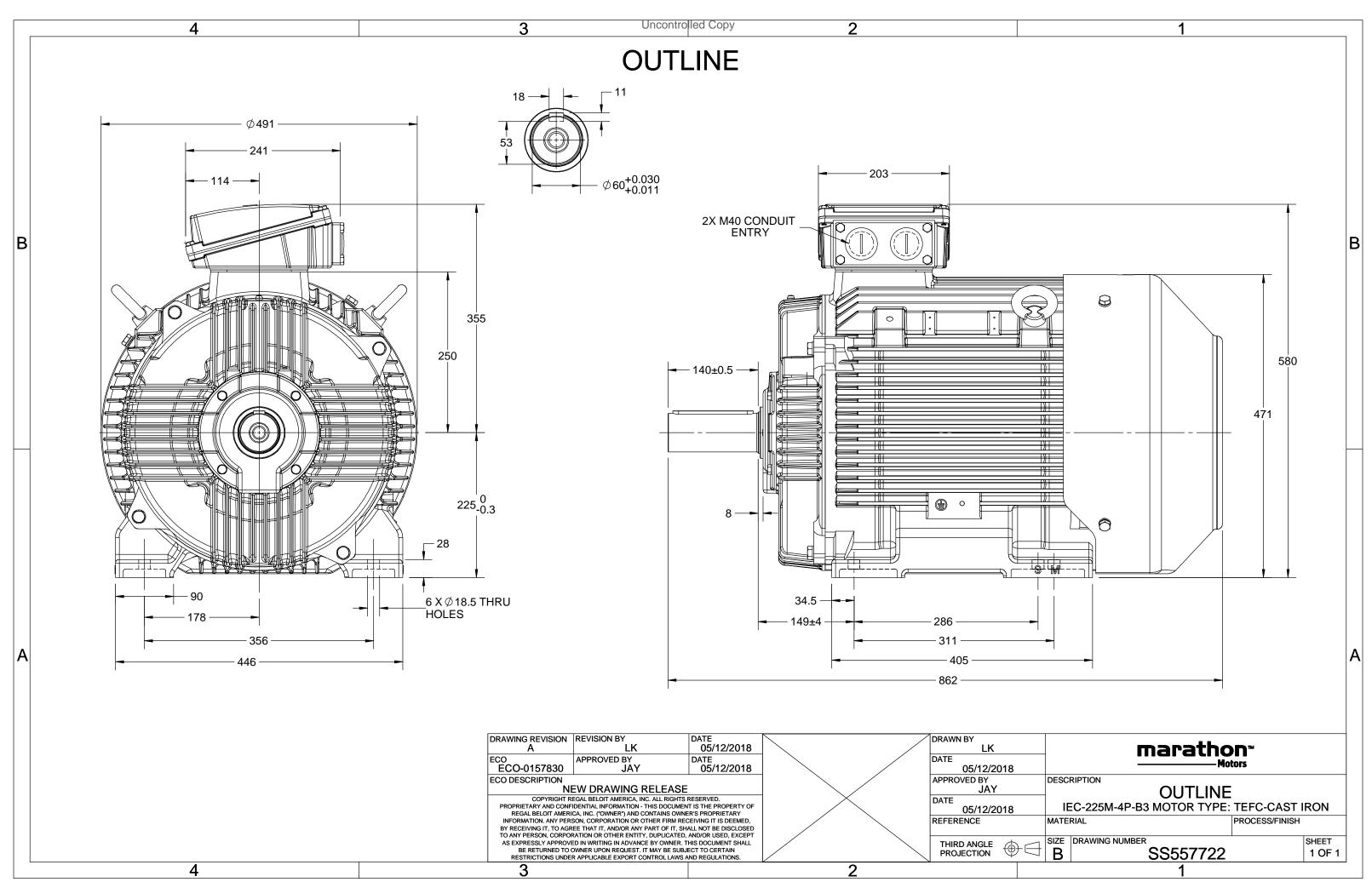
#### Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp		
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 200/400 V		
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	Ν		
CE	Y	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

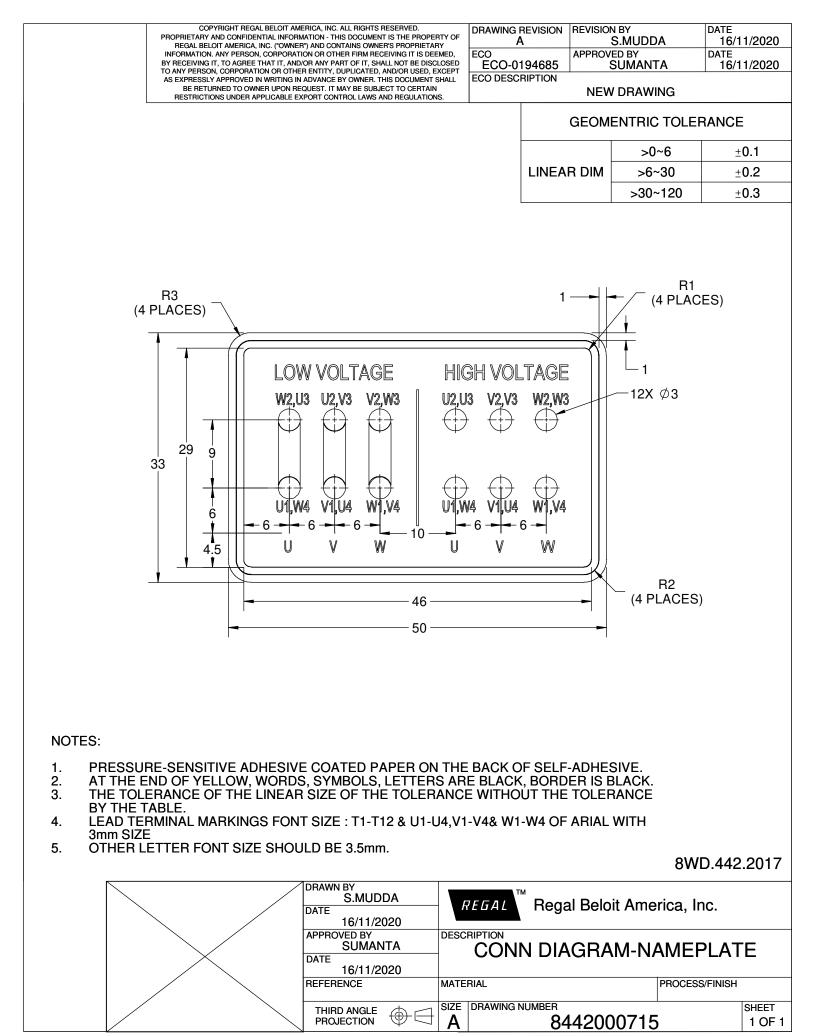
#### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	4	Rotation	Reversible		
Resistance Main	.09 Ohms	Mounting	В3		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	33.94 in		
Frame Length	16.73 in	Shaft Diameter	2.362 in		
Shaft Extension	5.51 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Connection Drawing	8442000715	Outline Drawing	SS557722		

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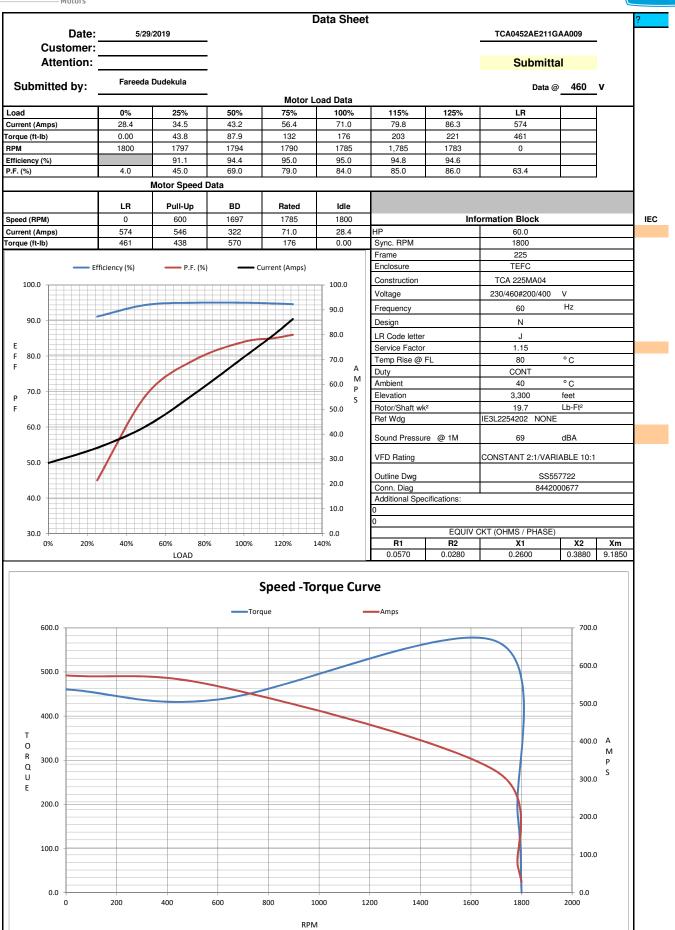
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
						PH. 715-675-3311						
									DATA VOLTS:	460		
									DATA VOLTS.	400		
					05	RTIFICATION DATA S	UFFT					
					UE	RIFICATION DATA S						
CUSTOME				_				OMER P.O. #:				
ORDER #:				_					: TCA0452AE211GAA009			
CONN. DI		8442000677						CAT #:		501B		
OUTLINE:		SS557722					CUSTO	MER PART #:				
WINDING:		IE3L225420	02 NONE	1				MOUNTING:	F3			
SPEED:		-										
					TYPICAL	MOTOR PERFORMA		TA				
HP	кw	SYNC RPM	_		55.445		ENCLOSURE		TYPE			DESIGN
нр	ĸw	SYNC RPM	F	LRPM		FRAME	ENC	LOSURE	ITPE	KVA C	KVA CODE DESIG	
60	45	1800		1785		225M	1	EFC	TCA 225MA04	L		N
00	40	1000	1	1100		2200		LIO	10/1220/0/104			
PH	HZ	VOLTS		AMPS		START TYPE	0	DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	142/	71&138/69		LINE OR INVERTER	C	ONT	F	1.15	40	3300
								-				
	F.L. EFF	95.0	3/4 LD EFF	95.0		1/2 LD EFF	94.4	GTD EFF		ELECT. 1	YPE	
	F.L. PF		3/4 LD PF			1/2 LD PF	69.0	94.3		SQ CAGE IN		
FI	TORQUE	LR AMPS (	70 460 V		I R	TORQUE		B.D. TOR	JUE	F.L. RISI	= (° C)	
	LB-FT	574	2 700 V	461 LB-FT 262%		570	LB-FT	324%	80	-( 0)		
170	20-11	014		401	20-11	20270	0/0	20-11	02470	00		
SOUND	PRESSURE @ 3		1						1		1	
	FT.	SOUND POWER	RO1	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	455	KG.
					*** SL	IPPLEMENTAL INFORMA	TION ***					
			MOUNT			1		ARDOUS				
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORI	RIENTATION SEVERE DUTY		LOC	CATION	DRIP COVER SCREENS		PAINT	
ST	ANDARD	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)
BI	EARINGS	GREASE	SUA	FT TYPE		SPECIAL DE	SDEC	IAL ODE	SHAFT	MATERIAL	EDAME	
DE	ODE	GREASE	5112		SPECIAL DE		SPECIAL ODE		SHAFT		FRAME MATERIAL	
BALL	BALL	SG S5-V100	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CASTIDON	
6313	6213	30 35-0100	STAN	DARDIEC		NONE NONE		1045 HOT KOLLED (C-204)		CAST IRON		
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT	1	NONE		NONE	N	IONE	E	ALSE	1	IA
		•										
R1 (ohms/ph) R2 (ohms/ph)		R2 (ohms/ph)	X1 (	ohms/ph) X2 (ohms/ph)		Xm (e	ohms/ph)	VIBRATION (in/sec)		FLOAT		
0.057 0.028			0.260 0.388		ç	9.185	0.150		ODE			
						4					•	
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VA	RIABLE 10:1	
0	0 T			INV. HP SPEED RANGE: NONE								
т												
Е								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
								BRAKE:	NONE		HONE	
PREPARED BY:							NONE	NOM	IF			
	DATE:	11/16/2020						FT-LB:		NA		
	DATE:									IONE		HZ:
EORM: 25	31 REV_4	2/27/06					110 -	VOLTAGE:	CONST UL REC			HZ:
FURIN: 35	SIREV_4	2/2//00					UL:	v - LI,IVI⊏-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 : TCA0452AE211GAA009

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

Catalog No : R501A

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