## PRODUCT INFORMATION PACKET



Model No: TCA0031AE211GAA009

Catalog No: R351B

Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 100L Frame, TEFC





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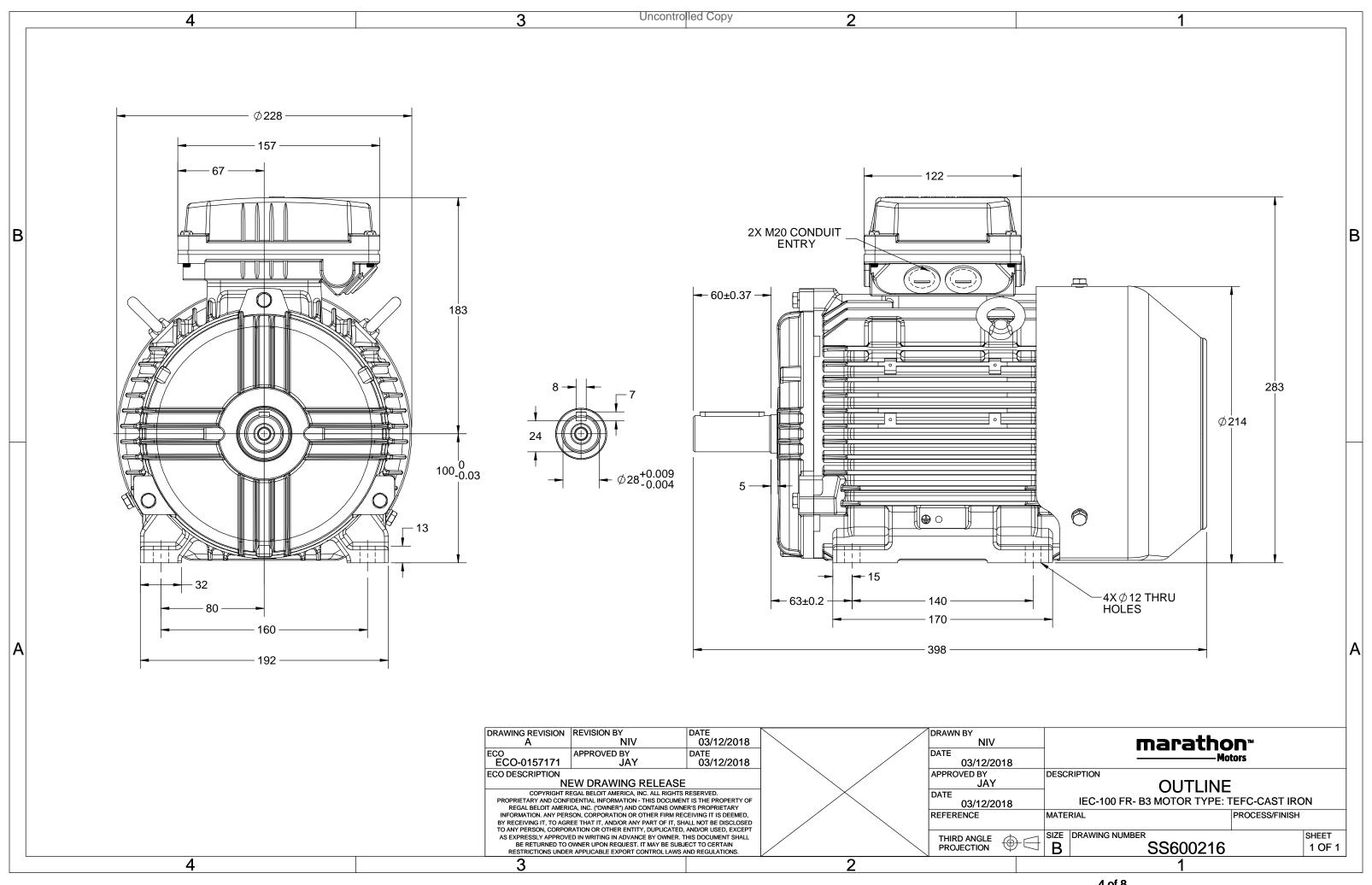
## Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	3499 & 2816 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	88.5 & 85.9 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	9.75/4.85 & 8.5/4.25 A	Power Factor	89.0
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	К
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

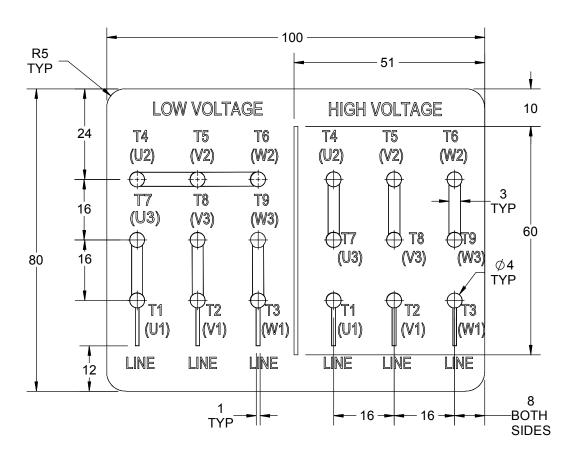
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	2	Rotation	Reversible		
Resistance Main	3.74 Ohms	Mounting	В3		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	15.67 in		
Frame Length	7.87 in	Shaft Diameter	1.102 in		
Shaft Extension	2.36 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS600216	Connection Drawing	8442000675		

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



### NOTES:

- 1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
- 2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
- 3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
- 4. LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

V. V. V. Z. V. Z. V. Z. V. V. V. V. V. V. Z. Z. Z. V. V. V. V. V. Z. Z. Z. V. V. V. V. V. Z. Z. Z. V. V. V. V. Z. Z. Z. Z. V. V. V. V. Z.									
DRAWING REVISION B	REVISION BY NIV	DATE 05/03/2019		DRAWN BY NIV	REGAL Regal Beloit Ame	orioo Ino			
ECO-0162986	APPROVED BY JAY	DATE 05/03/2019		DATE 29/01/2019	REGAL Regal Beloit Ame	erica, iric.			
ECO DESCRIPTION			] \ /	APPROVED BY	DESCRIPTION				
UPDATED DRAWING				JAY	CONNECTION D	CONNECTION DIAGRAM			
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REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY			29/01/2019	3 22/100 31/11/ 33/11					
INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,			REFERENCE	MATERIAL	PROCESS/FINISH				
	EE THAT IT, AND/OR ANY PART OF IT, SH								
	ATION OR OTHER ENTITY, DUPLICATED  O IN WRITING IN ADVANCE BY OWNER.			THIRD ANGLE	SIZE DRAWING NUMBER	SHEET			
BE RETURNED TO C	OWNER UPON REQUEST. IT MAY BE SUB	JECT TO CERTAIN		PROJECTION	A 8442000675				
RESTRICTIONS UNDER	R APPLICABLE EXPORT CONTROL LAWS	AND REGULATIONS.	V	V	<u>                                     </u>	۱ ۵۰			



# **TerraMAX**<sup>™</sup>



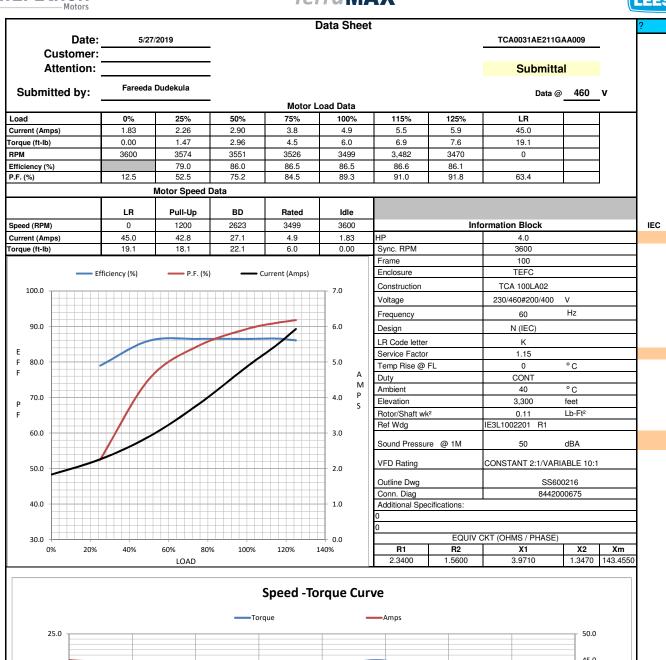
									P.O. BOX 8003			
							WAUSAU, WI 54401-8003					
									PH. 715-675-331	1		
									DATA VOLTS:	460		
	CERTIFICATION DATA SHEET											
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENC		TCA0031AE211G			
CONN. DIA		8442000675						CAT #:	R	351B		
OUTLINE:		SS600216						MER PART #:				
WINDING:		IE3L1002201	R1	1				MOUNTING:	F3			
SPEED:				_	VDIOAL	MOTOR REPEORMA	NOE DA					
					YPICAL	MOTOR PERFORMAI						
HP	KW	SYNC RPM	FL	. RPM	FRAME		ENCI	LOSURE	TYPE	KVACC	DDE	DESIGN
4	3.0	3600	3	3499		100L	Т	EFC	TCA 100LA02	K		N
PH	HZ	VOLTS	A	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	9.75/4.8	5&8.5/4.25	l	INE OR INVERTER		ONT	F	1.15	40	3300
	•										•	
	F.L. EFF	88.5	3/4 LD EFF	86.5		1/2 LD EFF	86.0	GTD EFF		ELECT. T	YPE	
	F.L. PF	89.3	3/4 LD PF	84.5		1/2 LD PF 75.2		84.5	SQ CAGE INV RATED		/ RATED	
									•			
F.L.	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TORG	QUE F.L. RIS		(° C)	
6.0	LB-FT	45.0		19.1	LB-FT 318%		22.1	LB-FT	368% 80			
SOUND F	PRESSURE @ 3 FT.	SOUND POWER	BOT	OR WK²		MAX. LOAD WK <sup>2</sup>	CAEEC	TALL TIME	CTAD	TC/LIQUE	APROX.	MOTOR WGT
63	dBA	72 dBA		LB-FT <sup>2</sup>	0.11	LB-FT <sup>2</sup>	SAFE STALL TIME 7 SEC.		STARTS/HOUR 2		41	KG.
03	UDA	12 UDA	, 0.11	LD-11	0.11	LD-1 I		SEU.			41	NG.
					*** SUI	PPLEMENTAL INFORMA	TION ***					
			MOUNT					ARDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE			SEVERE DUTY	LOCATION		DRIP COVER	SCREENS	PAINT	
ST	ANDARD	STANDARD	B3	HORIZONTAL		NO	NONE		NO	NONE	BLUE (E	ENAMEL)
	ARINGS	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
DE	ODE								<del></del>			
BALL	BALL	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT F	OLLED (C-204)	CAST	IRON
6206	6206											
THE	RMOSTATS	PROTECTORS	WDC	RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT	NONE		NONE		NONE		FALSE		NA	
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	(ohms/ph) X2		X2 (ohms/ph)		hms/ph)	VIBRATION (in/sec)		FLOAT		
	2.34 1.56 3.971		.971	1.347		143.455		0.150		ODE		
*												
N							INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1					
0							INV. HP	SPEED RANGE:	NONE			
T												
E								ENCODER: NONE				
S								NONE				
•						NONE NONE PPR				PPR		
							BRAKE:					
PREPARED BY:						NONE NONE						
	DATE:	11/10/2020					FT-LB: NA					
l						VOLTAGE: NONE HZ:						
FORM: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC						

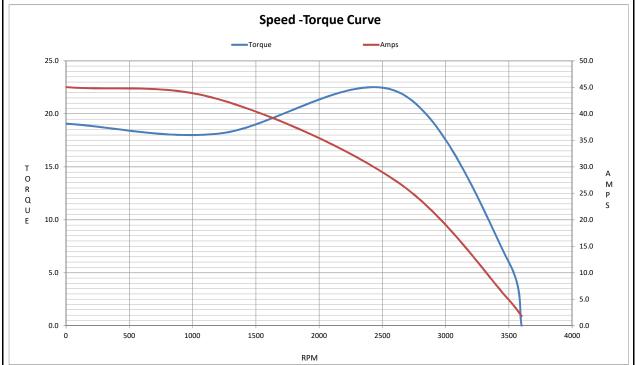














# **EC Declaration of Conformity**

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: TCA0031AE211GAA009

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

Catalog No: R351B

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:

Authorized Representative in the Community:

J. cerse

Julian Clark

Marketing Engineer

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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