## PRODUCT INFORMATION PACKET



Model No: TCA0031AE271GAA009

Catalog No: R651

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





Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



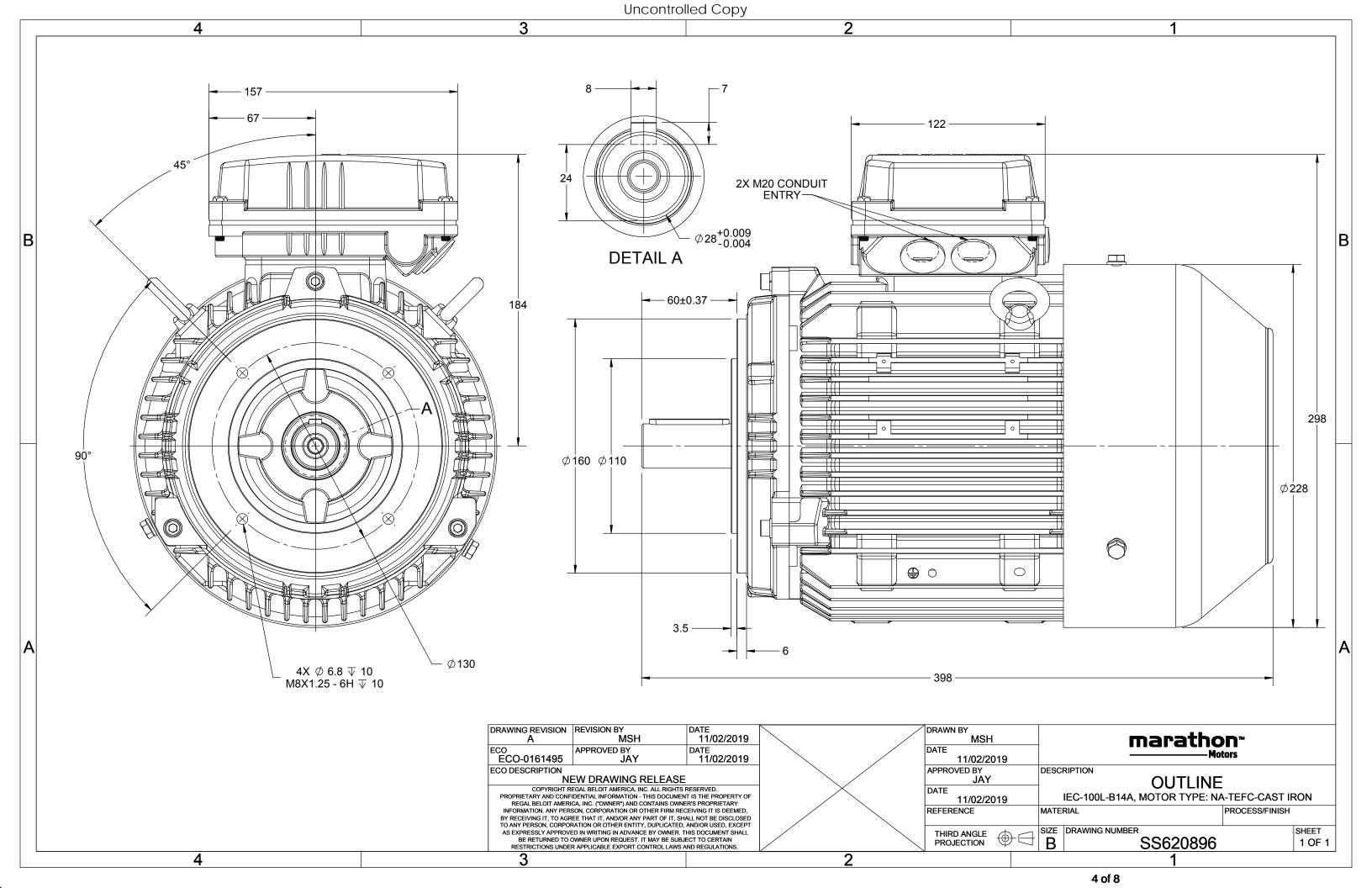
## Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	3500 & 2915 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	9.8/4.9 & 8.4/4.2 A	Power Factor	89
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

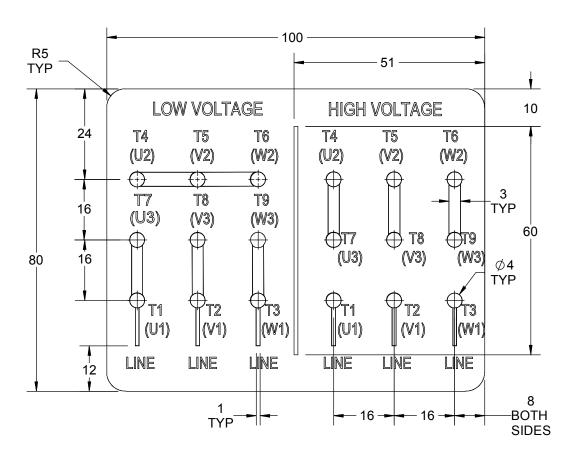
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	2	Rotation	Reversible		
Resistance Main	3.74 Ohms	Mounting	Round		
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				
Connection Drawing	8442000675	Outline Drawing	SS620896		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/22/2023



GENER	AL 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.

0. 0.1. <u></u> 1									
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				
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF			DATE 20/04/2040	DATE OF FADO OTAD CONNECTON					
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>



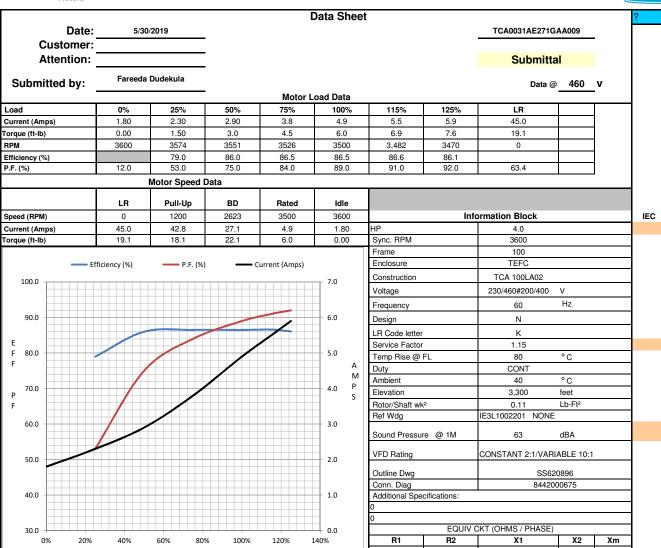
									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-3314 DATA VOLTS:			
	CERTIFICATION DATA SHEET											
CUSTOMER: ORDER #: CONN. DIAGRAM: 8442000675 OUTLINE: \$\$620896		8442000675 SS620896				CUSTOMER P.O. #: REFERENCE MODEL #: CAT #: CUSTOMER PART #:		: TCA0031AE271GAA009 : R651				
WINDING: SPEED:		IE3L1002201	NONE	1				MOUNTING:	F3			
SPEED.				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
НР	kw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CC	DDE	DESIGN
4	3.0	3600	;	3500		100L	Т	EFC	TCA 100LA02	К		N
PH	HZ	VOLTS		MPS		START TYPE	DUTY		INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	9.8/4.	9&8.4/4.2	l	LINE OR INVERTER		ONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	86.5		1/2 LD EFF	86.0 <b>GTD EFF</b>		ELECT. TYPE		YPE	
	F.L. PF	89.0	3/4 LD PF	84.0		1/2 LD PF	75.0	84.5	SQ CAGE INV RATED			
F.L	TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TORG		QUE F.L. RISE		(° C)	
6.0	LB-FT	45.0		19.1	LB-FT 318%		22.1 <b>LB-FT</b>		368% 80		<u> </u>	
SOUND	DUND PRESSURE @ 3  FT. SOUND POWER ROTOR WK <sup>2</sup>			MAX. LOAD WK <sup>2</sup>		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT	
63	dBA	72 <b>dBA</b>	0.11	LB-FT <sup>2</sup>	0.11	LB-FT <sup>2</sup>	7	SEC.		2	41.7	KG.
					*** SU	PPLEMENTAL INFORMA	TION ***					
DE DD	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	DUNT		SEVERE DUTY	HAZA	ARDOUS	DRIP COVER	SCREENS	PAINT	
	LANGE-130	STANDARD	ROUND	HORIZOI		NO NO		IONE	NO NONE		BLUE (ENAMEL)	
			-	•								·
DE B	EARINGS ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
BALL 6206	BALL 6206	POLYREX EM	STAN	DARD IEC	NONE		N	IONE	1045 HOT ROLLED (C-204)		CAST IRON	
6206	0200											
THE	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL	SPACE HEATERS	
NONE NOT		N	NONE NONE		NONE	NONE		FALSE		NA		
R1 (ohms/ph) R2 (ohms/ph)		X1 (c	(1 (ohms/ph) X2 (ohms/ph)			Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
	2.340	1.560	3	.971		1.347	14	3.455	0	.150	0	DE
* N O T								INV. HF	SPEED RANGE:	CONSTANT 2:1/VAF	NABLE 10:1	
E S .							ENCODER: NONE NONE NONE NONE NONE NONE NONE NONE				PPR	
PREPARED BY:						BRAKE: NONE NONE NONE NONE						
DATE: 11/16/2020							FT-LB:         NA           VOLTAGE:         NONE         HZ:					
FORM: 35	31 REV_4	2/27/06					UL:	V - LI,ME-INS,	CONST UL REC			

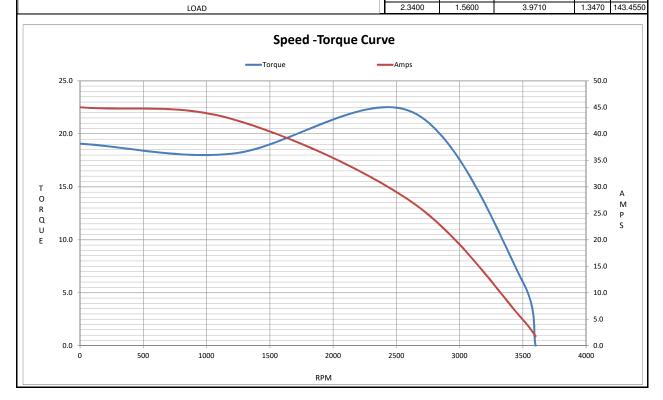
REGAL













# **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: TCA0031AE271GAA009

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

Catalog No : R651

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:** 

J. Clus

Michael A. Logsdon Vice President, Technology Julian Clark Marketing Engineer

Authorized Representative in the Community:

Created on 09/01/2022

**C € 22**