## PRODUCT INFORMATION PACKET



Model No: TCA7P51AE211GAA009

Catalog No: R330B

Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 132S Frame,

TEFC





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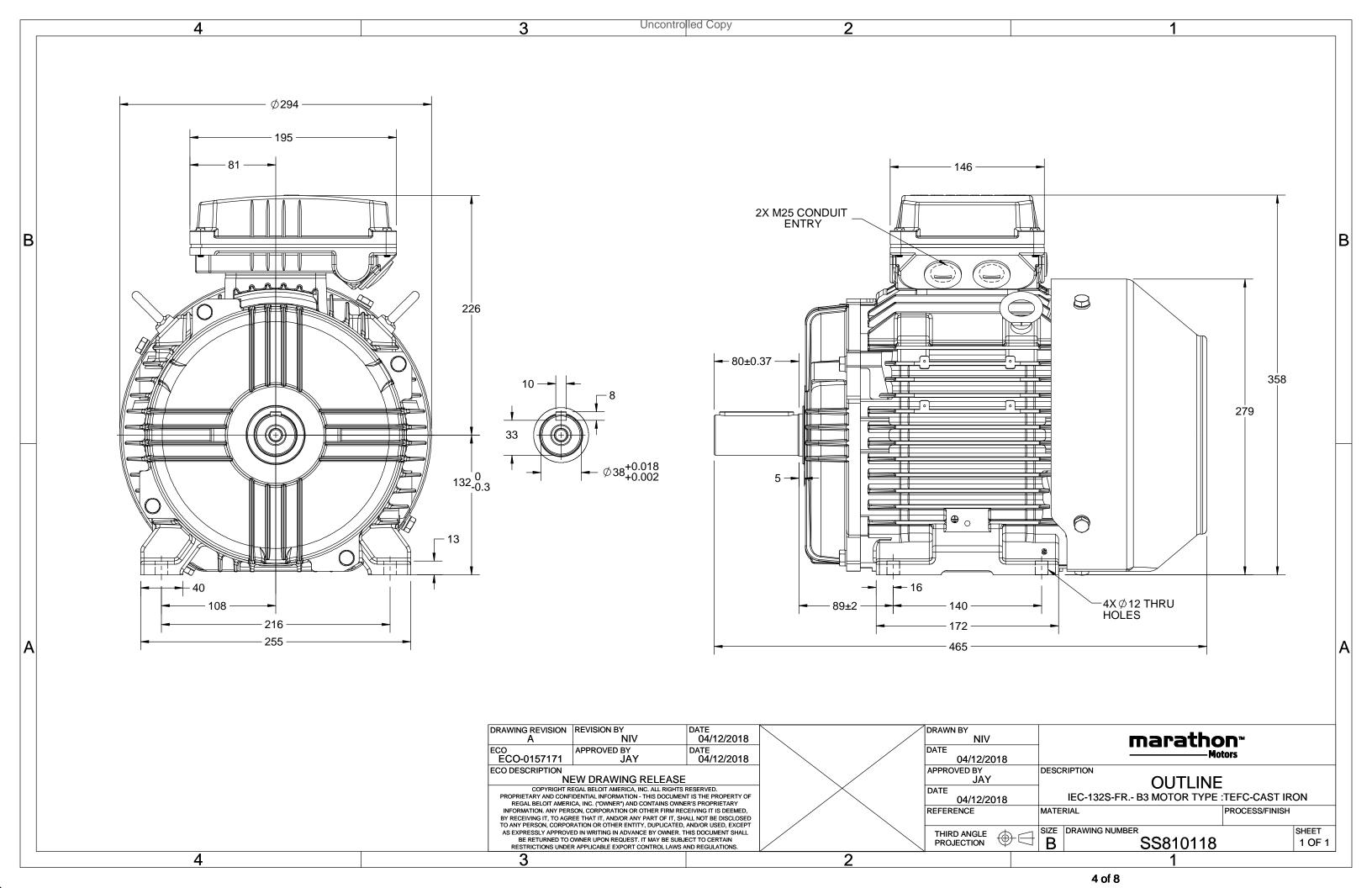
## Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp			
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V			
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15			
Frame	132S	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	90.2 & 89.2 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	23.8/11.9 & 21/10.5 A	Power Factor	88			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208			
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	1.24 Ohms	Mounting	В3		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	18.31 in		
Frame Length	7.95 in	Shaft Diameter	1.496 in		
Shaft Extension	3.15 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS810118	Connection Drawing	8442000715		

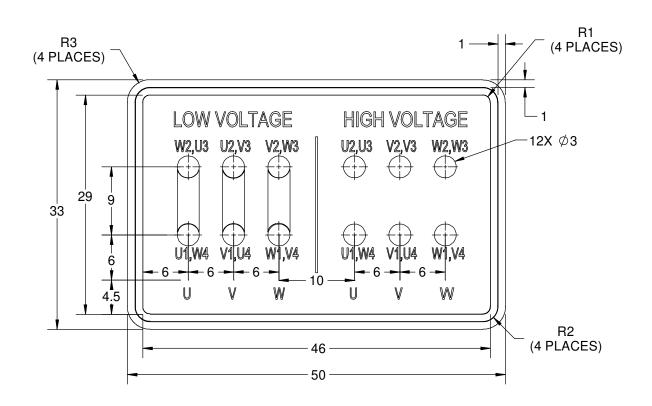
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

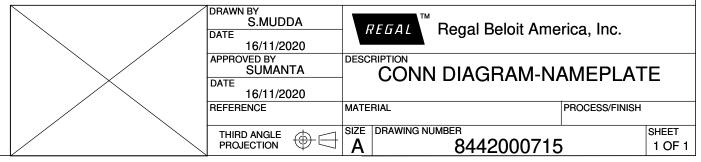
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



### 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>



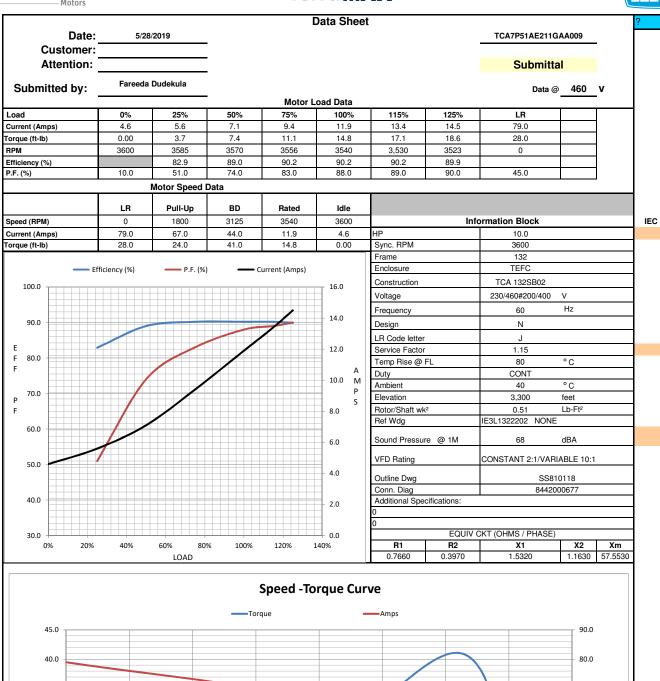
CUSTOME	<b>-p</b> .				CEF	RTIFICATION DATA SH		OMER P.O. #:	P.O. BOX 8003 WAUSAU, WI 54 PH. 715-675-331 DATA VOLTS:			
ORDER #:									TCA7P51AE2110	GAA009		
CONN. DI		8442000677					CAT #: CUSTOMER PART #:			-		
OUTLINE:		SS810118										
WINDING: SPEED:		IE3L1322202	NONE	1				MOUNTING:	F3			
		<u>-</u>		Т	YPICAL	MOTOR PERFORMA	NCE DA	TA	1			I
НР	kw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
10	7.5	3600	3	3540		132S	1	ΓEFC	TCA 132SB02	J		N
PH	HZ	VOLTS	Α	MPS		START TYPE		DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	23.8/11	.9&21/10.5	ı	INE OR INVERTER	C	CONT	F	1.15	40	3300
	F.L. EFF	00.0	3/4 LD EFF	90.2		1/2 LD EFF	89.0	GTD EFF	1			
	F.L. EFF		3/4 LD EFF			1/2 LD PF	74.0	88.7	ELECT. TYPE  SQ CAGE INV RATED			
		33.5				==						
	TORQUE	LR AMPS @	460 V			B.D. TORG				(°C)		
14.8	LB-FT	79.0		28.0	LB-FT	189%	41.0	LB-FT	277%	80		
SOUND PRESSURE @ 3 FT. SOUND POWER		ROT	ROTOR WK <sup>2</sup> MAX. LOAD WK <sup>2</sup>		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT		
72	dBA	81 <b>dBA</b>	0.51	LB-FT <sup>2</sup>	0.51	LB-FT <sup>2</sup>	10	SEC.		2	85	KG.
	*** SUPPLEMENTAL INFORMATION ***											
DEBR	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE	OR ORIENTATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT	
		STANDARD	B3		RIZONTAL NO		NONE		NO	NONE	BLUE (ENAMEL)	
		T							1		1	
DE	EARINGS ODE	GREASE	SHAI	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	CTANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6308	6208	FOLTREXEIN	STAIN	DAND IEC		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
		I							1		ı	
THERMOSTATS PROTECTORS		PROTECTORS	WDO	WDG RTD's BRG RTD's		THERMISTORS		CONTROL		SPACE HEATERS		
	NONE	NOT		ONE		NONE	NONE		FALSE		NA	
R1 (ohms/ph) R2 0.766		R2 (ohms/ph) 0.397		(ohms/ph) X2 (ohms/ph) 1.532 1.163		Xm (ohms/ph) 57.553		VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.700	0.007		.002		1.100		7.000		3.100		DE
N O T					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE							
E S					ENCODER: NONE  NONE				PPR			
PREPARED BY: DATE: 11/10/2020					BRAKE: NONE   NONE   NONE   FT-LB: NA   VOLTAGE: NONE   HZ:							
FORM: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC						

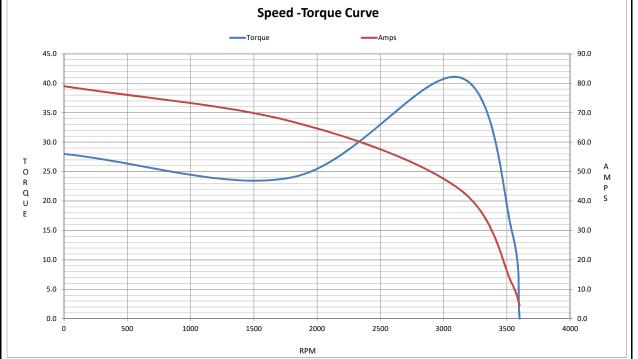














# **EC Declaration of Conformity**

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: TCA7P51AE211GAA009

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

Catalog No: R330B

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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