## PRODUCT INFORMATION PACKET



Model No: TCA0112AE221GAA009

Catalog No: R234

Cast Iron Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 160M Frame,

**TEFC** 





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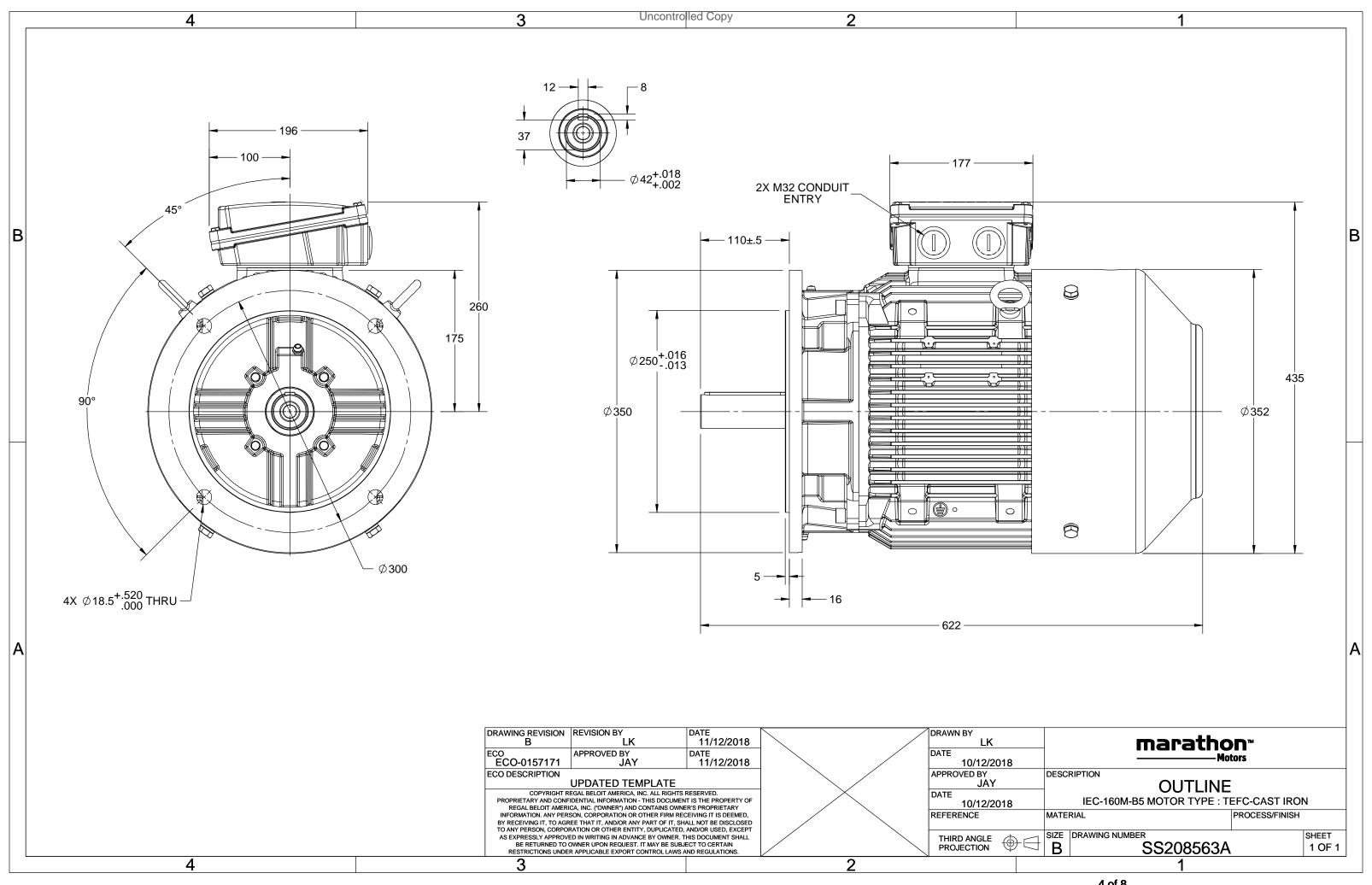
## Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp			
Output KW	11.0 & 7.5 kW	Voltage	230/460 & 200/400 V			
Speed	1775 & 1485 rpm	Service Factor	1.15 & 1.15			
Frame	160M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	92.4 & 90.4 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	37.5/18.7 & 33/16.4 A	Power Factor	80			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209			
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	4	Rotation	Reversible		
Resistance Main	.69 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	20.55 in		
Frame Length	10.00 in	Shaft Diameter	1.654 in		
Shaft Extension	4.33 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Connection Drawing	8442000715	Outline Drawing	SS208563A		

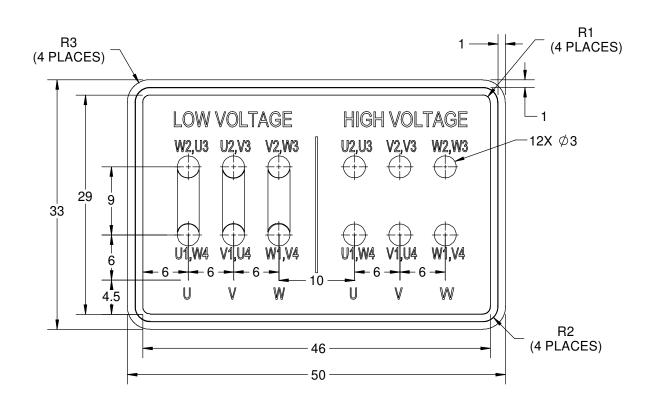
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

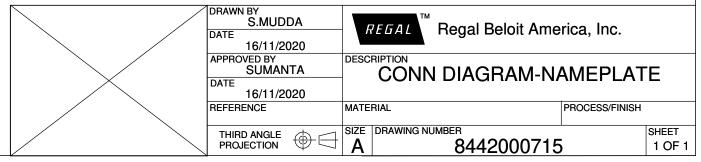
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



### 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>



								P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331	ı			
									DATA VOLTS:	460		
	CERTIFICATION DATA SHEET											
CUSTOMER: ORDER #:						OMER P.O. #:		۸۸۸۸۸				
CONN. DI		8442000677					CAT #:		: TCA0112AE221GAA009 : R234			-
OUTLINE:		SS208563A						MER PART #:	:			
WINDING: SPEED:		IE3L1604201	NONE	1				MOUNTING:	F3			
		-			YPICAL	MOTOR PERFORMA	NCE DA	TA				1
HP	kw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
15	11.2	1800		1775		160M	т	EFC	TCA 160MB04	J		N
PH	HZ	VOLTS	A	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	37.5/18	.7&33/16.4	l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF	92.4	3/4 LD EFF	92.4		1/2 LD EFF	91.6	GTD EFF		ELECT. T	YPE	
	F.L. PF	80.0	3/4 LD PF	73.0		1/2 LD PF	61.0	91.3	SQ CAGE INV RATED			
F.L	TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TORQUE		QUE	F.L. RISE	(° C)	
44.4	LB-FT	134		103	LB-FT 232%		142 <b>LB-FT</b>		320% 80			
SOUND PRESSURE @ 3 FT. SOUND POWER		ROT	TOR WK <sup>2</sup> MAX. LOAD WK <sup>2</sup>		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT		
68	dBA	77 dBA	2.54	LB-FT <sup>2</sup>	2.54	LB-FT <sup>2</sup>	10 SEC.		2		154 <b>KG</b> .	
					*** SU	PPLEMENTAL INFORMA	TION ***					
DE DD	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	JNT		HAZARDOUS		DRIP COVER	SCREENS PAIN		NIT	
	LANGE-300	STANDARD	ROUND	HORIZO				ONE	NO NO	NONE	BLUE (ENAMEL)	
		T				-						
DE	EARINGS ODE	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6309	6209					-				(- ,		
											SPACE	HEATERS
		PROTECTORS		G RTD's BRG RTD's		THERMISTORS		CONTROL FALSE				
	NONE	NOT	l N	NONE NONE		NONE FALSI		ALSE NA				
R1 (ohms/ph)		R2 (ohms/ph)		hms/ph)				hms/ph)	VIBRATION (in/sec)		FLOAT ODE	
	0.435	0.208	1	.002		1.229	28	3.214	1 0	.150	0	DE
*												
N O				INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1								
T T					INV. HP SPEED RANGE: NONE							
E					ENCODER: NONE							
8					NONE NONE PPR				PPR			
				BRAKE: NONE								
PREPARED BY:  DATE: 11/16/2020				NONE NONE								
	DATE:	11/10/2020					FT-LB: NA VOLTAGE: NONE HZ:					
FORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC							

REGAL



80.0

60.0

40.0

20.0

0.0

0

200

400

600

800

1000

RPM

1200







80.0 Ρ

60.0

40.0

20.0

0.0

2000

1400

1600

1800



# **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: TCA0112AE221GAA009

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

Catalog No: R234
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:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. Cers

Julian Clark Marketing Engineer

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