PRODUCT INFORMATION PACKET

Model No: TCA0151AE221GAA009 Catalog No: R236 Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 160M Frame, TEFC



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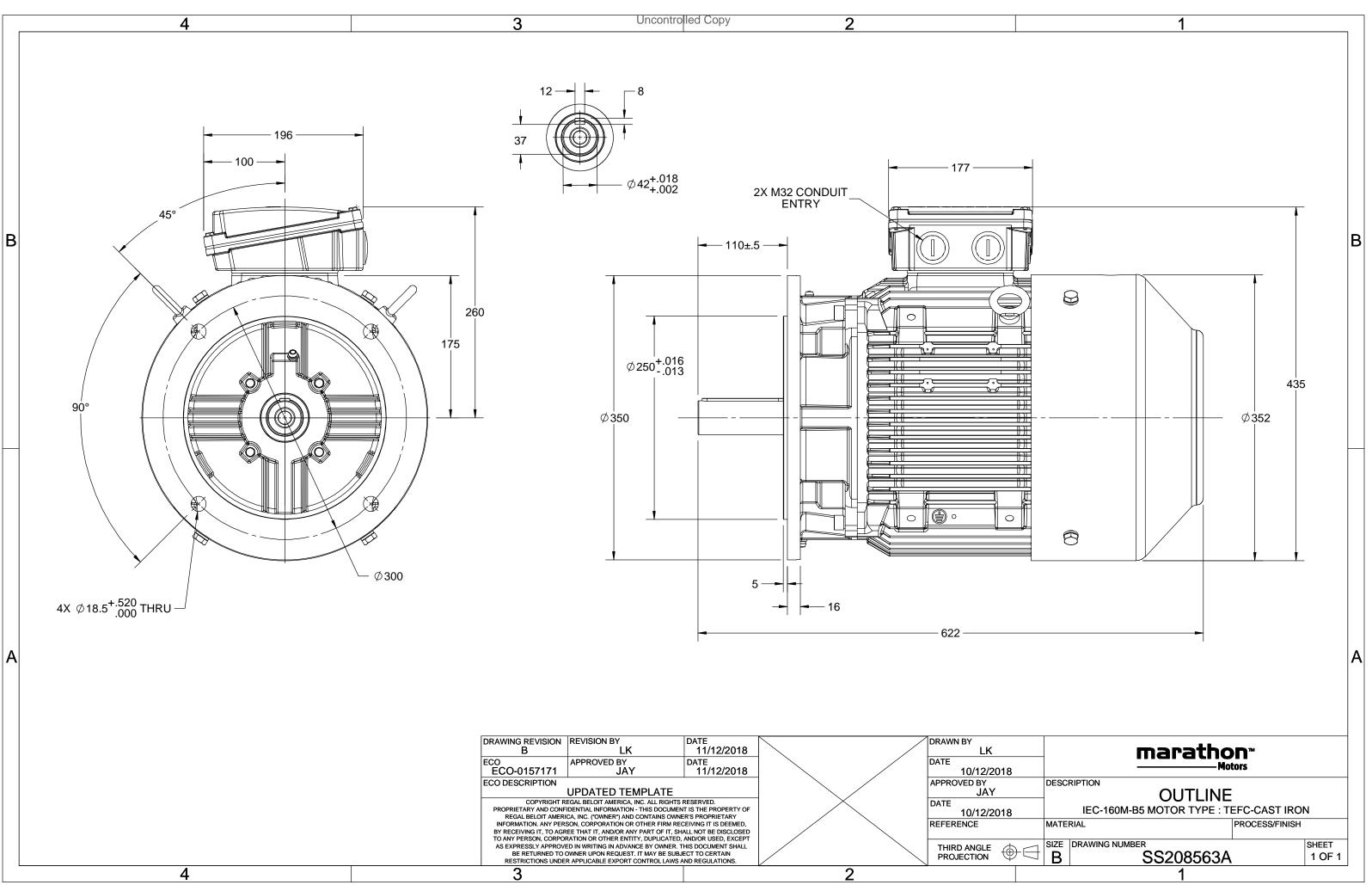
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp		
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V		
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	91 & 91.2 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	45.5/22.8 & 39/19.5 A	Power Factor	91		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	G		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
UL	Recognized	CSA	N		
CE	Y	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

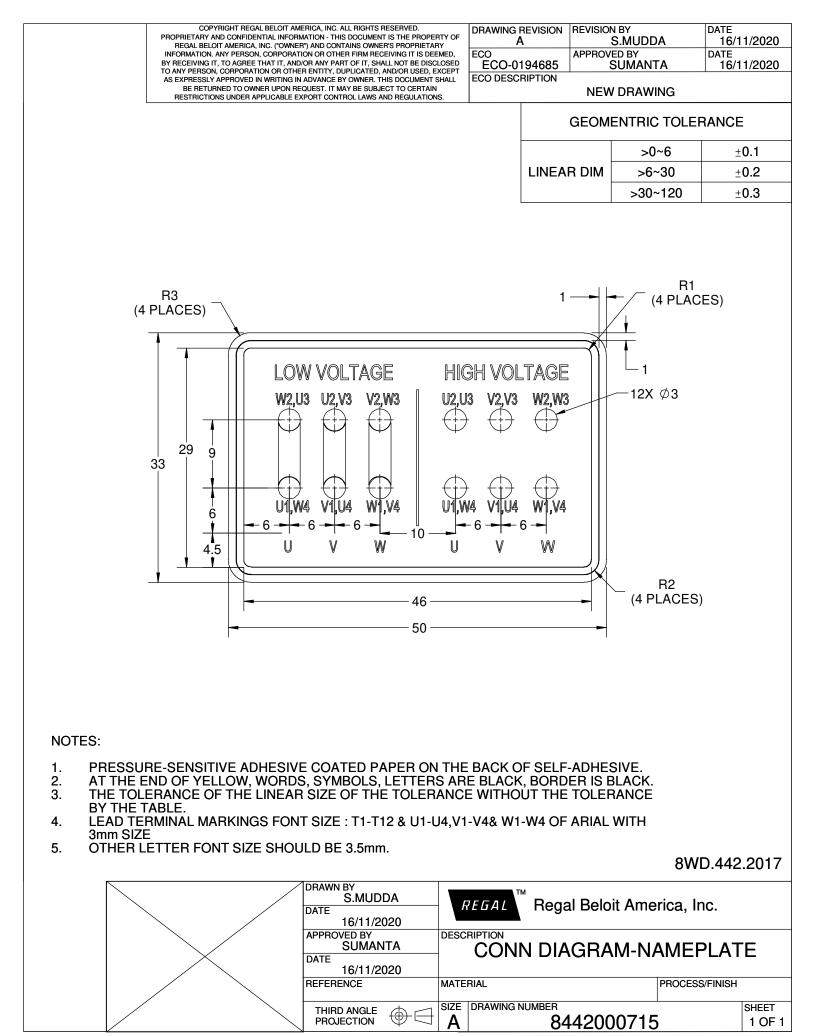
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	2	Rotation	Reversible		
Resistance Main	.73 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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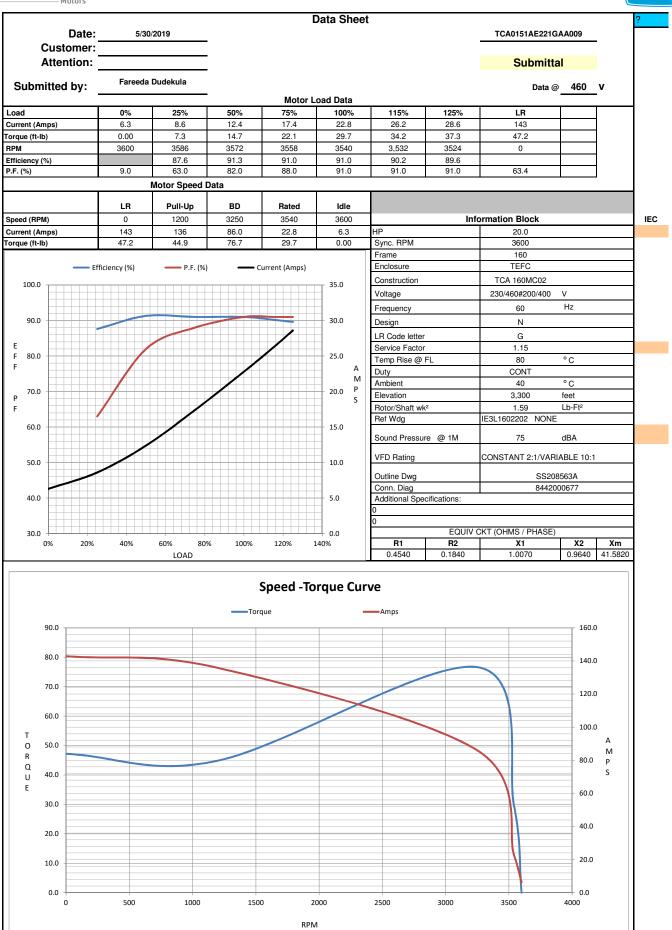
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003 PH. 715-675-3311							
									DATA VOLTS:	460		
									2/1///02/01	100		
					CEI	RTIFICATION DATA SI	JEET					
					UEI	TIFICATION DATA 3						
CUSTOME	- D.						OUNT	OMER P.O. #:				
				-								
ORDER #:							REFERENCE MODEL #:					
CONN. DIAGRAM: 8442000677								CAT #:		236		
OUTLINE:		SS208563A					CUSTO	MER PART #:				
WINDING:		IE3L1602202	NONE	1				MOUNTING:	F3			
SPEED:		_		_								
				1	YPICAL	MOTOR PERFORMA	NCE DA	TA				
		0,010 000			50.005				7/85			DEDION
HP	ĸw	SYNC RPM	FL	RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
20	14.9	3600		3540		160M	т	EFC	TCA 160MC02	G		N
20	14.5	0000	· · · ·	5540		1001		LIO	10/4 100/0002		N	
PH	HZ	VOLTS	A 1	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	45.5/22	.8&39/19.5		INE OR INVERTER	C	ONT	F	1.15	40	3300
								-				
	F.L. EFF	91.0	3/4 LD EFF	91.0		1/2 LD EFF	91.3	GTD EFF		ELECT. 1	YPE	
	F.L. PF		3/4 LD PF			1/2 LD PF	82.0	89.7		SQ CAGE IN		
FI	TORQUE	LR AMPS @	460 V		L.R. TORQUE			B.D. TOR	QUE F.L. RIS		(° C)	
29.7 LB-FT 143		400 0	47.2 LB-FT 159%		76.7	LB-FT	258%					
20.1	20-11	140		47.2	LD-1 1	10070	10.1	20-11	20070	00		
SOUND	PRESSURE @ 3	1	1						1			
	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
75	dBA	84 dBA	1.59	LB-FT ²	1.59	LB-FT ²	7	SEC.		2		KG.
			,			I				-		
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT	1				ARDOUS	1			
DE BRACKET TYPE				MOTOR ORIENTATION SEVERE DUTY		LOCATION		DRIP COVER	SCREENS	PA	PAINT	
FF-F	LANGE-300	STANDARD	ROUND	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	NAMEL)
		•		•								
B	EARINGS	GREASE		FT TYPE		0050141 05	0050					
DE	ODE	GREASE	5ПА	FITTPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL		07.01		NONE		NONE		1045 HOT POLLED (0.004)			
6309	6209	POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
											00405	
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS	со	NTROL	SPACE	HEATERS
	NONE	NOT		IONE		NONE		IONE		ALSE	N	IA
				-				-				
R1	R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
0.454		0.184		.007	7 0.964			1.582	0.150		ODE	
*												
N						INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1						
0					INV. HP SPEED RANGE: NONE							
т												
E								ENCODER:	NONE			
S								NONE				
*								NONE			NONE	DDD
								BRAKE:	NONE		NONE	
										NO	E	
	PREPARED BY: DATE:	11/16/2020							NONE	NON		
	DATE:	11/10/2020						FT-LB:		NA		
EORM OF	FORM: 3531 REV 4 2/27/06				·	VOLTAGE: NONE HZ UL: V - LI,ME-INS,CONST UL REC HZ HZ				HZ:		
FORM: 35	DOIKEV_4	2/27/06					UL:	v - LI,IVIE-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 : TCA0151AE221GAA009

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

Catalog No : R236

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