### **PRODUCT INFORMATION PACKET**

Model No: TCA0221AE211GAA009 Catalog No: R342B Cast Iron Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 180M Frame, TEFC



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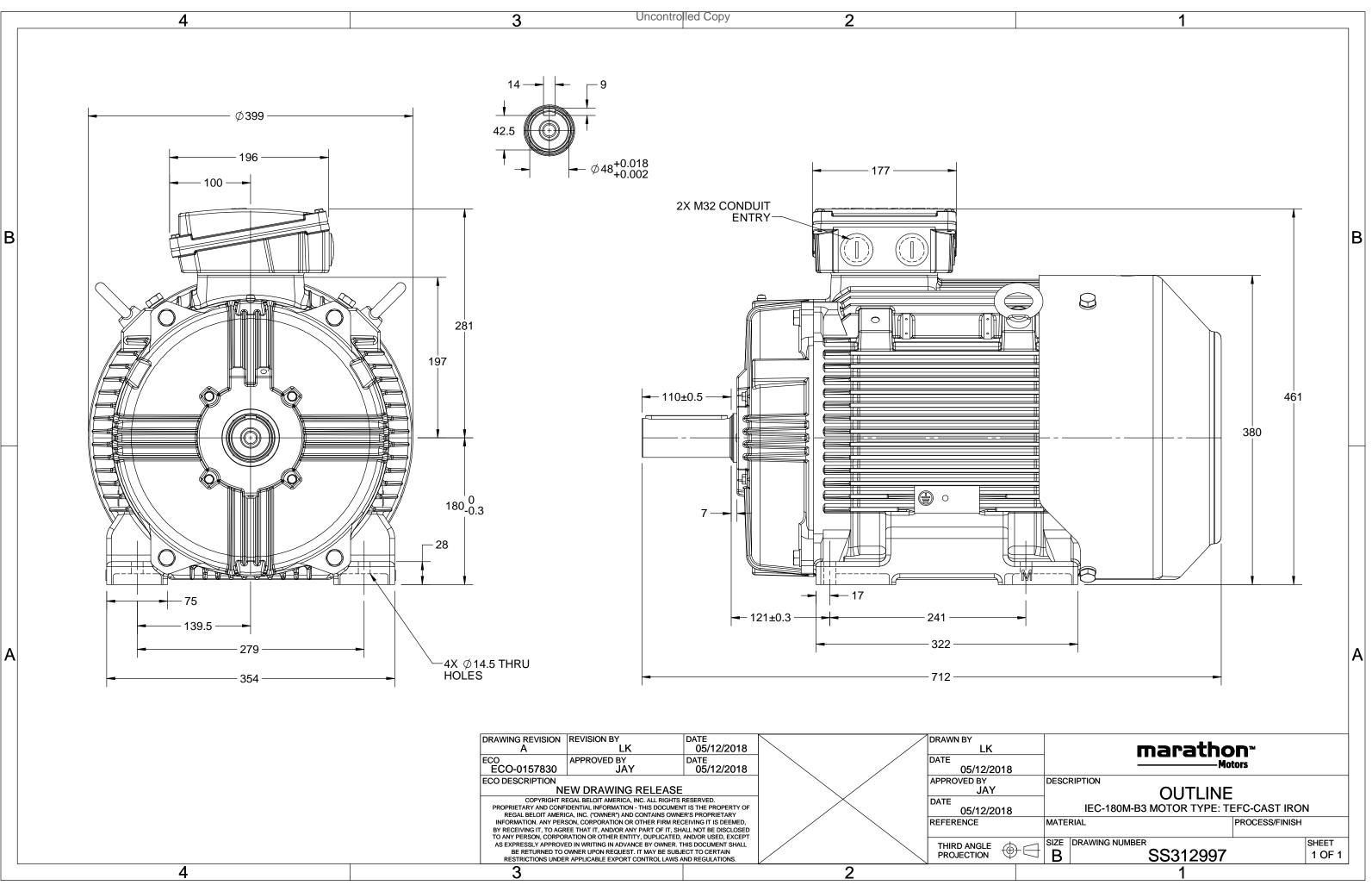
#### Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp			
Output KW	22.0 & 18.5 kW	Voltage	230/460 & 200/400 V			
Speed	3550 & 2955 rpm	Service Factor	1.15 & 1.15			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91.7 & 92.4 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	68/34 & 68/34 A	Power Factor	88			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	F			
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

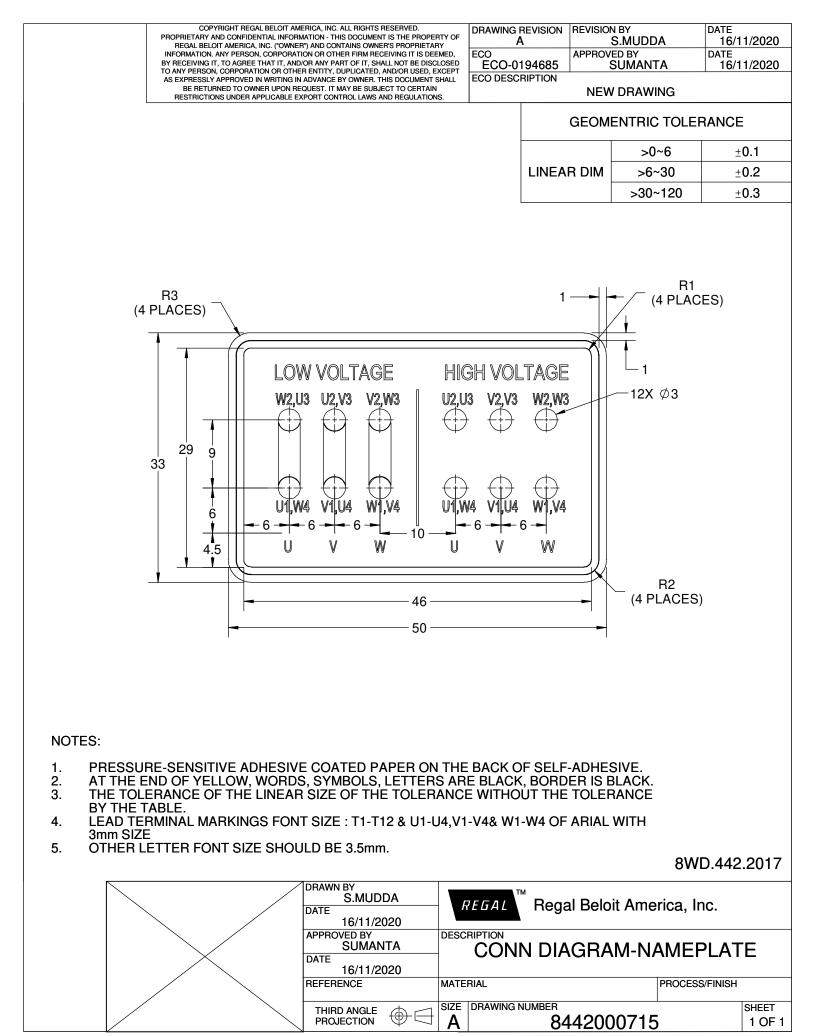
#### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.37 Ohms	Mounting	B3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	28.03 in
Frame Length	12.91 in	Shaft Diameter	1.890 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	8442000715	Outline Drawing	SS312997

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									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
					PH. 715-675-3311							
									FII. 713-073-331			
									DATA VOLTS:	460		
					CE	RTIFICATION DATA S	HEET					
CUSTOME	R.						CUST	OMER P.O. #:				
ORDER #:				r			REFERENCE MODEL #:			44009		
		8442000677		_			CAT #:					
CONN. DIAGRAM: 8442000677 OUTLINE: SS312997						CUSTOMER PART #:			342D			
							CUSIO					
WINDING:		IE3L1802201	NONE	1				MOUNTING:	F3			
SPEED:		_										
					YPICAL	MOTOR PERFORMA	NCE DA	TA				
HP	ĸw	SYNC RPM	FI	FL RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
30	22.4	3600		3550		180M		EFC	TCA 180MA02	F		N
РН	HZ	VOLTS		MPS	1	START TYPE		UTY	INSL	0.5	AMB (° C)	
										S.F.	. ,	ELEV.(Ft.)
3	60/50	230/460#200/400	68/3	4&68/34		LINE OR INVERTER	C	ONT	F	1.15	40	3300
				1					1			
	F.L. EFF		3/4 LD EFF			1/2 LD EFF	91.4	GTD EFF		ELECT.		
	F.L. PF	88.0	3/4 LD PF	84.0		1/2 LD PF	77.0	90.5		SQ CAGE IN	V RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RIS	E (°C)	
		65.0	65.0 LB-FT 146%		113 LB-FT 255		255%	80				
						•						
SOUND P	PRESSURE @ 3											
	FT.	SOUND POWER	ROT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
76	dBA	85 dBA	2.81	LB-FT <sup>2</sup>	2.81	LB-FT <sup>2</sup>	15	SEC.		2	199	KG.
										-		
					*** \$1	PPLEMENTAL INFORMA						
			MOUNT		00			RDOUS				
DE BRACKET TYPE				MOTOR ORI	MOTOR ORIENTATION SEVERE DUTY		LOCATION		DRIP COVER SCREENS		PAINT	
	ANDARD	STANDARD B3				NO	NONE	NO	NONE	BLUE (ENAMEL)		
											(	
B	EARINGS	1	1		1							
DE	ODE	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL		
BALL	BALL											
		POLYREX EM	STAN	NDARD IEC		NONE		ONE	1045 HOT F	OLLED (C-204)	ED (C-204) CAST IRON	
6311	6211											
		1			1				1		1	
											SPACE	HEATERS
THERMOSTATS PROTECTORS				WDG RTD's BRG RTD's			MISTORS	CONTROL				
	NONE	NOT	N	IONE		NONE	N	ONE	E.	ALSE	N	IA
		•										
R1 (ohms/ph)		R2 (ohms/ph)		hms/ph)				ohms/ph)	VIBRATION (in/sec)		FLOAT	
	0.236	0.113	(	0.662		0.766	2	3.146	C	.150	0	DE
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0					INV. HP SPEED RANGE: NONE							
	Т											
Е								ENCODER:	NONE			
S								NONE				
S				NONE NONE PPR				DDD				
									NONE		NONE	FFR
								BRAKE:				
PREPARED BY:						NONE	NOI	NE				
	DATE:	11/10/2020					FT-LB: NA					
							VOLTAGE: NONE HZ:					
FORM: 35	31 REV_4	2/27/06					UL:	V - LI,ME-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 : TCA0221AE211GAA009

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

Catalog No : R342B

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