## **PRODUCT INFORMATION PACKET**

Model No: TCA0153AP211GAA009 Catalog No: R438 Cast Iron Motor, 20 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 180L Frame, TEFC



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Product Information Packet: Model No: TCA0153AP211GAA009, Catalog No:R438 Cast Iron Motor, 20 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 180L Frame, TEFC

# marathon®

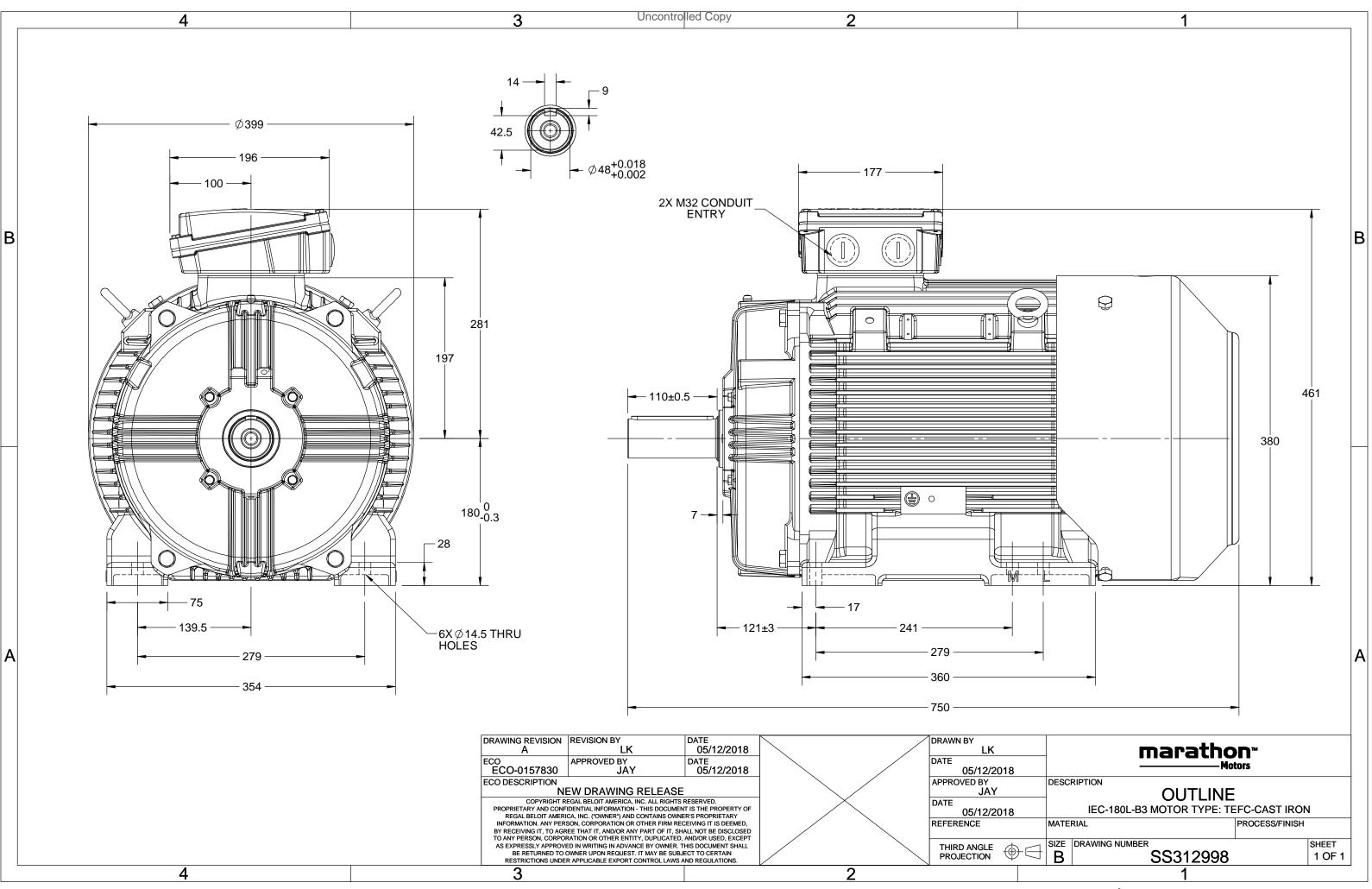
#### Nameplate Specifications

Output HP	20 Нр	Output KW	15.0 kW
Frequency	60 Hz	Voltage	575 V
Current	21.4 A	Speed	1180 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
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	6	Rotation	Reversible
Resistance Main	.56 Ohms	Mounting	B3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	29.53 in
Frame Length	14.41 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	8442000685	Outline Drawing	SS312998

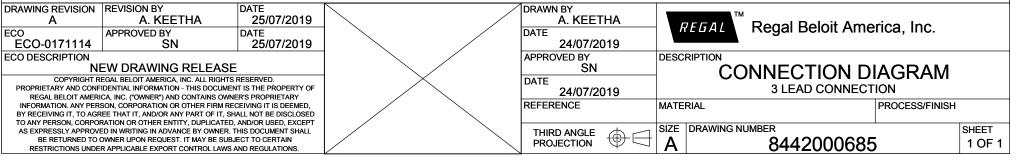
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GENERAL TOLERANCE		
DIM >6~30 ±0.2		
>30~120 ±0.3		
		Ī
	$\phi_4$ $\tau_4$ $\tau_6$ $h_4$ $\tau_6$ $h_{41}$	
	TYP = T1(U1) T2(V1) T3(W1)	
		60
	LINE LINE LINE	
	24	
		<u> </u>
NOTES:		
	ESIVE TAPE COATED WITH ANTI-ADHESIVE.	
	DUND LETTERS WILL BE BLACK.	
	INEAR SIZE OF THE TOLERANCE WITHOUT	
THE TOI FRANCE BY THE T		

- THE TOLERANCE BY THE TABLE.
- 4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T2 T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

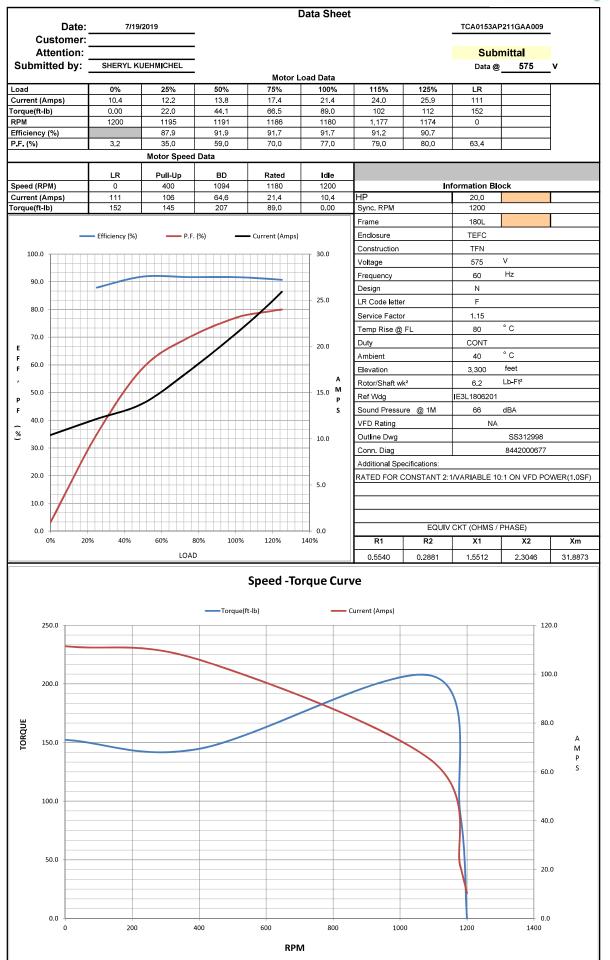


				ma	ага	thon <sup>®</sup> Motors				DATA VOLTS:	575		
					C		SHEET						
CONN. DIA DUTLINE: WINDING:		8442000677 SS312998 IE3L18062	01 NONE	3	<b>T</b> 1( <b>P</b> 10			CAT #: MOUNTING:		1GAA009 438			
НР	ĸw	SYNC RPM	FLR	РМ		AL MOTOR PERFORM			TYPE KVA CODE			DESIGN	
20	15.0	1200	118			180L		EFC	TFN	F		N	
<b>РН</b> 3	<b>HZ</b> 60	<b>VOLTS</b> 575	<b>AMI</b> 21.	-		START TYPE LINE OR INVERTER		ONT	INSL F	<b>S.F.</b> 1.15	<b>AMB (° C)</b> 40	ELEV. (Ft) 3300	
	F.L. EFF F.L. PF	91.7 77.0	3/4 LD EFF 3/4 LD PF	91.7 70.0		1/2 LD EFF 1/2 LD PF	91.9 59.0	<b>GTD EFF</b> 90.5		ELEC SQ CAGE			
	DRQUE LB-FT	<b>LR AM</b> 11 <sup>-</sup>	-	152	L LB-FT	<b>R. TORQUE</b> 171%	207	B.D. TORQ LB-FT	UE 233%	<b>F.L. RIS</b> 80	E (° C)		
	RESSURE dBA	SOUND 65 dBA	<b>ROTO</b> 6.2	WK <sup>2</sup> LB-FT <sup>2</sup>	6.2	MAX. LOAD WK <sup>2</sup> LB-FT <sup>2</sup>	SAFE S	TALL TIME SEC.		S/HOUR 2	<b>APROX</b> . 216	MOTOR KG.	
DE BRAC	KET TYPE	ODE BRACKET TYPE	MOUNT		*** TOR TATION	SUPPLEMENTAL INFORM	HAZA	* ARDOUS CATION	DRIP COVER	R SCREENS PAINT		AINT	
	IDARD	STANDARD	B3		ZONTAL	NO		ONE	NO	NONE		ENAMEL)	
DE	RINGS ODE	GREASE	SHAFT	ТҮРЕ		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL FR		MATERIAL	
BALL 6309	BALL 6209	POLYREX EM	STANDA	RD IEC		NONE	N	ONE	1045 HOT R	1045 HOT ROLLED (C-204)		CAST IRON	
	OSTATS	PROTECTORS	WDG F			BRG RTD's		MISTORS		CONTROL		HEATERS	
	INE	NOT R2 (ohms/ph)	X1 (ohr		I	NONE X2 (ohms/ph)		ohms/ph)	I	FALSE IBRATION (in/sec)		NA	
	5625	0.45	2.423			3.6015625		234375		150			
* N O T							If Inverter equals NONE, contact factory for further information INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE				1		
E S	ENCODER: NONE NONE NONE						NONE	PPR					
PREP	ARED BY:	9/22/2021						BRAKE: N FT-LB:	ONE	NOI	NE		
	31 REV_4							VOLTAGE:		ONE		HZ	











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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 : TCA0153AP211GAA009

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

Catalog No : R438

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