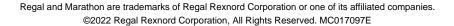
PRODUCT INFORMATION PACKET



Model No: TCA1P53AP211GAA009 Catalog No: R420B

Cast Iron Motor, 2 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 100L Frame, TEFC









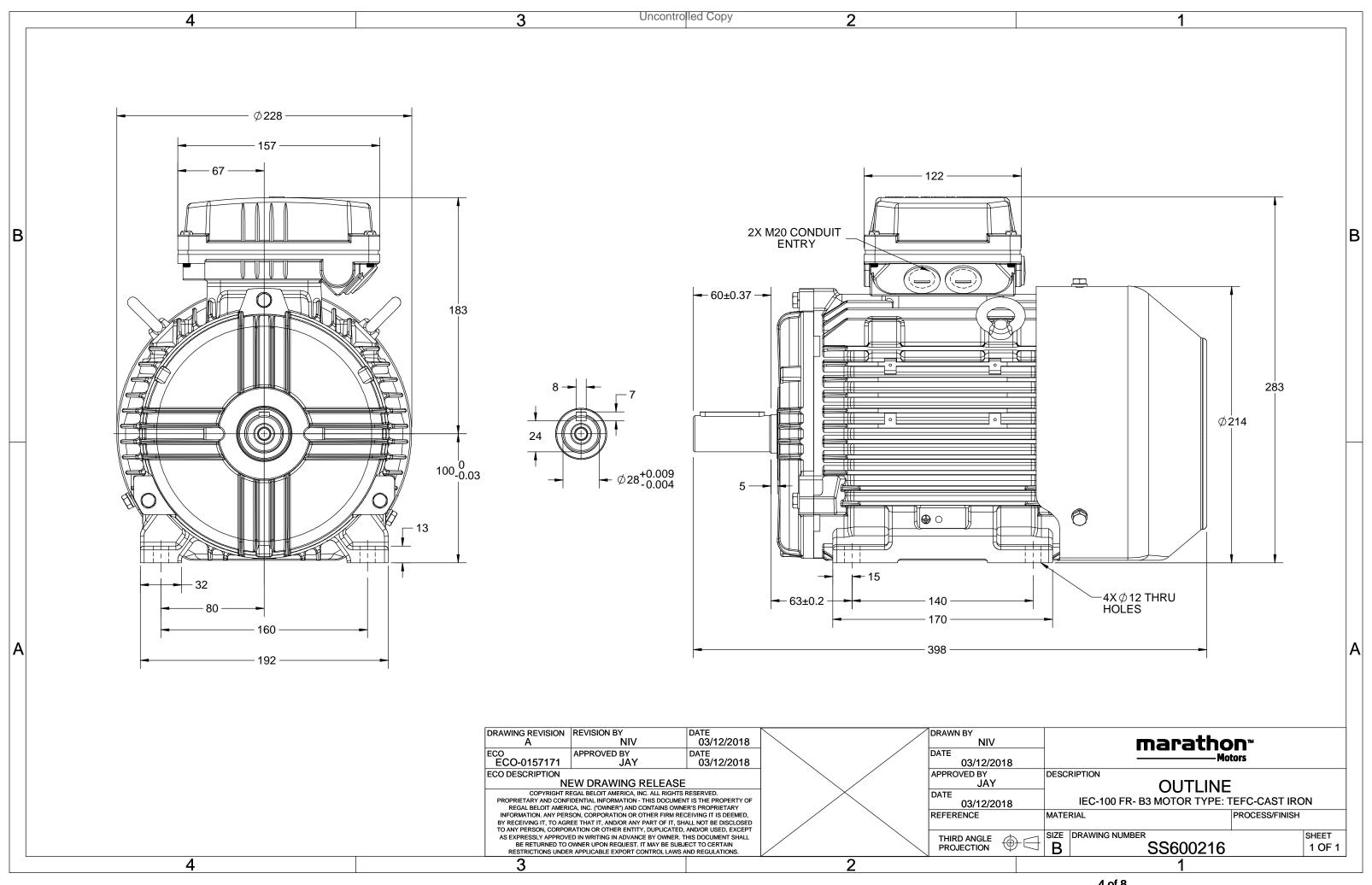
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW		
Frequency	60 Hz	Voltage	575 V		
Current	2.4 A	Speed	1175 rpm		
Service Factor	1.15	Phase	3		
Efficiency	88.5 %	Power Factor	72		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	К		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
UL	Recognized	CSA	N		
CE	Υ	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

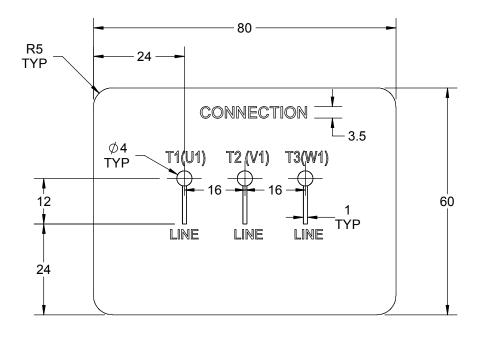
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	6.5 Ohms	Mounting	В3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	15.67 in
Frame Length	7.87 in	Shaft Diameter	1.102 in
Shaft Extension	2.36 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	8442000685	Outline Drawing	SS600216

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GENER	AL TOLERANCE					
	>0~6	±0.1				
LINEAR	>6~30	±0.2				
	>30~120	±0.3				



NOTES:

- 1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
- 2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
- 3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT 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.

0.011.2112									
DRAWING REVISION A	REVISION BY A. KEETHA	DATE 25/07/2019			DRAWN BY A. KEETHA		Regal Beloit Ame	rico Inc	
ECO ECO-0171114	APPROVED BY SN	DATE 25/07/2019			DATE 24/07/2019		Regal Beloit Ame	ilica, ilic.	
ECO DESCRIPTION			1		APPROVED BY	DESC	RIPTION		
NEW DRAWING RELEASE					SN		CONNECTION D	IAGRAM	
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.		1	X	DATE					
PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY				24/07/2019		3 LEAD CONNECT	ION		
	SON, CORPORATION OR OTHER FIRM				REFERENCE	MATE	RIAL	PROCESS/FINISH	
	REE THAT IT, AND/OR ANY PART OF IT,								
	RATION OR OTHER ENTITY, DUPLICAT					1 SIZE	DRAWING NUMBER		OLIEET
	ED IN WRITING IN ADVANCE BY OWNE				THIRD ANGLE	1 3125			SHEET
	OWNER UPON REQUEST. IT MAY BE S		/		PROJECTION	⊺∣ Δ	8442000685	5	1 OF 1
RESTRICTIONS UNDE	R APPLICABLE EXPORT CONTROL LAV	VS AND REGULATIONS.	I /		J	· /	0 11 200000	,	. 🗸 .



TerraMAX[™]



					CEF	RTIFICATION DATA S	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000685 SS600216 IE3L1006202	NONE				CUSTO	CAT #: MER PART #: MOUNTING:	TCA1P53AP211G	AA009 420B		
	1011	0,410, 004			YPICAL	MOTOR PERFORMA			7/05	1014.00	\n=	DEGION
HP	KW	SYNC RPM		. RPM		FRAME		OSURE	TYPE	KVA CODE		DESIGN
2	1.5	1200	1	175		100L	Т	EFC	TCA 100LA06	К	N	
PH 3	HZ 60	VOLTS 575		MPS 2.4	l	START TYPE LINE OR INVERTER		UTY ONT	INSL F	S.F. 1.15	AMB (° C) 40	ELEV.(Ft.) 3300
	F.L. EFF	88.5	3/4 LD EFF	88.5		1/2 LD EFF	84.9 GTD EFF		ELECT. TYPE		YPE	
	F.L. PF	72.0	3/4 LD PF	63.0		1/2 LD PF 50.0 86.8		86.8	SQ CAGE INV		/ RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE	B.D. TOR		RQUE F.L. RISE		(° C)	
9.0	LB-FT	17.8 21.6 LB-FT			LB-FT	240%	30.8 LB-FT		342% 80			
	PRESSURE @ 3 FT.	SOUND POWER				MAX. LOAD WK ²	SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT
55	dBA	64 dBA	IBA 0.45 LB-FT ² 0.45 LB-FT ² 15 SEC.							2	43	KG.
					*** SU	PPLEMENTAL INFORMA						
	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE MOTOR ORIEN				LOC	ARDOUS ATION	DRIP COVER	SCREENS	PAINT	
ST	ANDARD	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	NAMEL)
DE BI	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	SHAFT MATERIAL FRA		IATERIAL
BALL 6206	BALL 6206	POLYREX EM	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE	BRG RTD's NONE		THERMISTORS NONE		CONTROL FALSE		SPACE HEATERS	
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)	X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
	9.348	5.886		7.313	22.506			3.519	519 0.150 OD			
* N O T								INV. HI	SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
PREPARED BY:							BRAKE: NONE NONE NONE FT-LB: NA					
FORM: 35	FORM: 3531 REV_4 2/27/06					UL:	VOLTAGE: V - LI,ME-INS	CONST UL REC	ONE		HZ:	





Q U 15.0

10.0

5.0

0

200

400

600

RPM





Data Sheet Date: 5/29/2019 TCA1P53AP211GAA009 **Customer:** Attention: **Submittal** Fareeda Dudekula Submitted by: Data @ 575 V **Motor Load Data** 0% 25% 50% 75% 100% 115% 125% LR Load Current (Amps) 1.44 1.68 1.76 2.08 2.40 2.64 2.80 17.8 0.00 2.20 4.4 9.0 10.3 11.3 21.6 Torque (ft-lb) 6.7 RPM 1200 1193 1187 1181 1175 1.169 1166 0 Efficiency (%) 76.4 84.9 88.5 88.5 87.4 87.1 P.F. (%) 8.0 30.0 50.0 63.0 72.0 75.0 77.0 63.4 **Motor Speed Data** LR Pull-Up BD Rated 977 1200 Information Block IEC Speed (RPM) 0 400 1175 1.44 Current (Amps) 17.8 17.0 10.0 2.40 0.00 Sync. RPM Torque (ft-lb) 20.5 9.0 1200 21.6 30.8 100 Efficiency (%) - Current (Amps) Enclosure TEFC P.F. (%) Construction TCA 100L06 100.0 3.0 Voltage 575 ٧ Hz Frequency 60 90.0 Design Ν 2.5 LR Code letter Service Factor 1.15 80.0 Temp Rise @ FL °C 80 2.0 Duty CONT °C Ambient 40 70.0 Elevation 3.300 feet Rotor/Shaft wk2 0.45 Lb-Ft² 1.5 Ref Wdg IE3L1006202 NONE 60.0 Sound Pressure @ 1M dBA 1.0 VFD Rating CONSTANT 2:1/VARIABLE 10:1 50.0 Outline Dwg SS600216 Conn. Diag 8442000675 0.5 40.0 Additional Specifications: EQUIV CKT (OHMS / PHASE) 30.0 0.0 0% 20% 40% 60% 100% 120% 140% R1 R2 X1 X2 Χm 5.9830 14.4040 226.2520 LOAD 3.7670 11.0800 **Speed -Torque Curve** -Torque 35.0 20.0 18.0 30.0 16.0 25.0 14.0 12.0 20.0 O R

10.0

8.0 6.0

4.0

2.0 0.0

1400

1000

1200

800



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: TCA1P53AP211GAA009

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

Catalog No: R420B

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:

Authorized Representative in the Community:

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22