PRODUCT INFORMATION PACKET



Model No: TCA1P53AE211GAA009 Catalog No: R320B

Cast Iron Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 100L Frame,

TEFC





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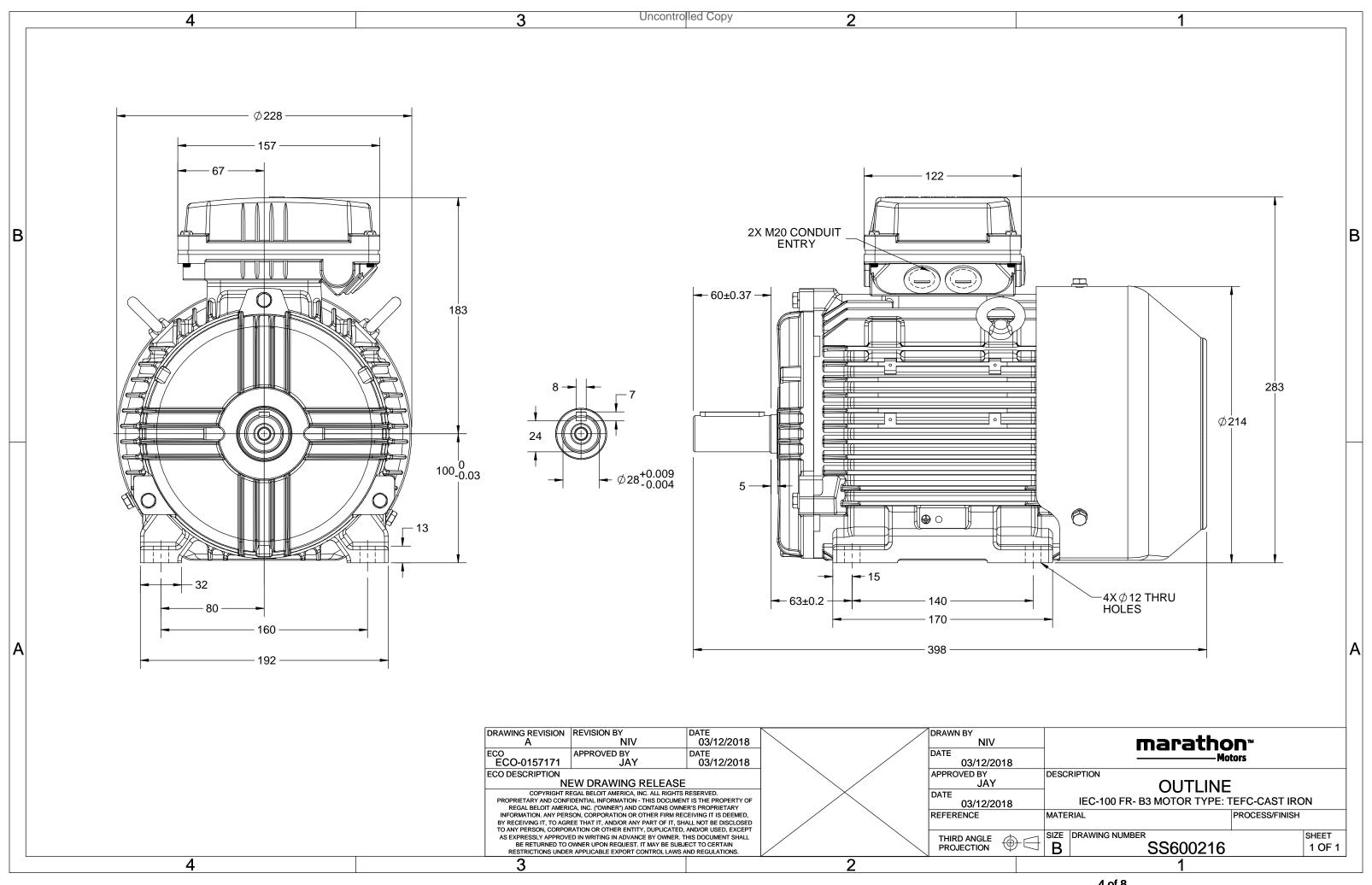
Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	230/460 & 200/400 V
Speed	1175 & 980 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	88.5 & 81 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	6/3 & 5.4/2.7 A	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	К
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
<u> </u>	<u> </u>		

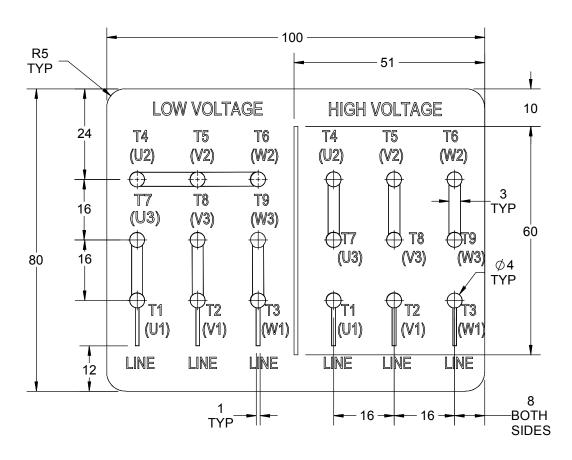
Technical Specifications

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		
Outline Drawing	SS600216	Connection Drawing	8442000675

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GENER	NERAL 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-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

DRAWING REVISION B	REVISION BY NIV	DATE 05/03/2019		DRAWN BY NIV	REGAL Regal Beloit Ame	orioo Ino				
ECO-0162986	APPROVED BY JAY	DATE 05/03/2019		DATE 29/01/2019	REGAL Regal Beloit Ame	erica, iric.				
ECO DESCRIPTION] \ /	APPROVED BY	DESCRIPTION					
	UPDATED DRAWING			JAY	CONNECTION D	IAGRAM				
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REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY			29/01/2019	3 22/100 31/11/ 33/11						
INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,			REFERENCE	MATERIAL	PROCESS/FINISH					
	EE THAT IT, AND/OR ANY PART OF IT, SH									
	ATION OR OTHER ENTITY, DUPLICATED O IN WRITING IN ADVANCE BY OWNER.			THIRD ANGLE	SIZE DRAWING NUMBER	SHEET				
BE RETURNED TO C	OWNER UPON REQUEST. IT MAY BE SUB	JECT TO CERTAIN		PROJECTION	A 8442000675					
RESTRICTIONS UNDER	R APPLICABLE EXPORT CONTROL LAWS	AND REGULATIONS.	V	V	<u> </u>	۱ ۵۰				



TerraMAX[™]



									P.O. BOX 8003				
									WAUSAU, WI 54401-8003				
									PH. 715-675-331	1			
									DATA VOLTS:	460			
					CEF	RTIFICATION DATA S	HEET						
CUSTOME	R:						CUSTO	OMER P.O. #:					
ORDER #:									TCA1P53AE211G	AA009		-	
CONN. DIA	AGRAM:	8442000675		•				CAT #:	R	320B		-	
OUTLINE:		SS600216					CUSTO	MER PART #:					
WINDING:		IE3L1006202	NONE	1				MOUNTING:	F3				
SPEED:													
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TΑ					
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENCI	LOSURE	TYPE	KVA C	DDE	DESIGN	
2	4.5	4000	١,	475		4001	-		TO A 4001 A00				
- 2	1.5	1200	1	175		100L	!	EFC	TCA 100LA06	К		N	
PH	HZ	VOLTS	А	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400		5.4/2.7	1	INE OR INVERTER		ONT	F	1.15	40	3300	
	F.L. EFF	88.5	3/4 LD EFF	88.5		1/2 LD EFF	84.9	GTD EFF		ELECT. T	YPE		
	F.L. PF		3/4 LD PF	63.0		1/2 LD PF	50.0	86.8		SQ CAGE IN\			
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE	B.D. TOR		QUE F.L. RISE		(° C)		
	LB-FT	22.3		21.6	LB-FT 240%			LB-FT	342%	80	1 -/		
		!											
SOUND	PRESSURE @ 3												
	FT.	SOUND POWER		ROTOR WK ² MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT		
55	dBA	64 dBA	0.45	LB-FT ²	0.45	LB-FT ²	15	SEC.		2	43	KG.	
			•										
			MOUNT		*** SU	PPLEMENTAL INFORMA							
DE DD	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE	HAZARDOUS ENTATION SEVERE DUTY LOCATION			DRIP COVER	SCREENS	PAINT			
	ANDARD	STANDARD	B3	HORIZOI		NO NO		ONE	NO NO	NONE	BLUE (ENAMEL)		
- 51	ANDARD	STANDARD	- 50	HONZO	NIAL	140	IN	ONL	NO	NONE	DLOL (I	INAMEL)	
BI	EARINGS												
DE D.	ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL	
BALL	BALL				+								
6206	6206	POLYREX EM	STANI	DARD IEC		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON		
						-							
											20405		
THE	RMOSTATS	PROTECTORS	WDO	RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS	
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	۱A	
						<u> </u>					•		
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)	X2 (ohms/ph) Xm (o		hms/ph)	VIBRATION (in/sec)		FLOAT			
	3.829	2.411	7	.091		9.218	14	4.801	C).150	0	DE	
*													
N										CONSTANT 2:1/VAF	RIABLE 10:1		
0								INV. HI	SPEED RANGE:	NONE			
Т													
E								ENCODER:	NONE				
s								NONE					
*								NONE			NONE	PPR	
								BRAKE:					
	PREPARED BY:						NONE NONE						
	DATE:	11/16/2020						FT-LB:		NA			
	04.051/ 4	0/07/00						VOLTAGE:		IONE		HZ:	
FORM: 3531 REV_4 2/27/06							UL:	v - LI,ME-INS	CONST UL REC				









Motors										
					Data Shee	t				?
Date: _ Customer: _ Attention:	5/28	3/2019						TCA1P53AE211 Submit		-
Submitted by:	Fareeda	Dudekula					Data @ 460 V			
					Load Data	•	1	1	1	
ad	0%	25%	50%	75%	100%	115%	125%	LR		4
rrent (Amps)	1.80	2.10	2.20	2.60	3.0	3.3	3.5	22.3		4
que (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.3	21.6		-
M	1200	1193	1187	1181	1175	1,169	1166	0		-
iciency (%)	8.0	76.4 30.0	84.9 50.0	88.5 63.0	88.5 72.0	87.4 75.0	87.1 77.0	63.4		-
·. (%)		Motor Speed D		63.0	72.0	75.0	77.0	63.4		J
eed (RPM)	LR	Pull-Up 400	BD 977	Rated 1175	1200		In	formation Block		
` '	22.3	21.2	12.5	3.0	1.80	HP		2.0		
rrent (Amps) que (ft-lb)	21.6	20.5	30.8	9.0	0.00	Sync. RPM		1200		
que (II-Ib)	21.0	20.5	30.0	3.0	0.00	Frame		100		
Fff	iciency (%)	P.F. (%)		Current (Amps)		Enclosure		TEFC		
	icicity (70)	1 (70)		arrent (Amps)		Construction		TCA 100L06		
100.0					4.0			230/460#200/400	V	
						Voltage				
					3.5	Frequency		60	Hz	
90.0						Design		N		
						LR Code letter		K		
E F 80.0					3.0	Service Factor		1.15		
5 80.0						Temp Rise @	FL	80	°C	
					2.5 M	Duty		CONT		
70.0					P	Ambient		40	°C	
					S	Elevation		3,300	feet	
					2.0	Rotor/Shaft wk	2	0.45	Lb-Ft ²	
60.0						Ref Wdg		IE3L1006202 NON		
					1.5	Sound Pressur	re @ 1M	55	dBA	
50.0						VFD Rating		CONSTANT 2:1/VAF	RIABLE 10:1	i
					1.0	Outline Dwg		SSE	00216	
					+	Conn. Diag			000675	
40.0					0.5	Additional Spe	cifications:	0112		
					0.5	0				
	/					0				
30.0					0.0	0	EQUIV	CKT (OHMS / PHASE) X2	





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: TCA1P53AE211GAA009

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

Catalog No: R320B

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:

<u>Authorized Representative in the Community:</u>

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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