PRODUCT INFORMATION PACKET



Model No: TCA1P53AE231GAA009

Catalog No: R820

TerraMAX® 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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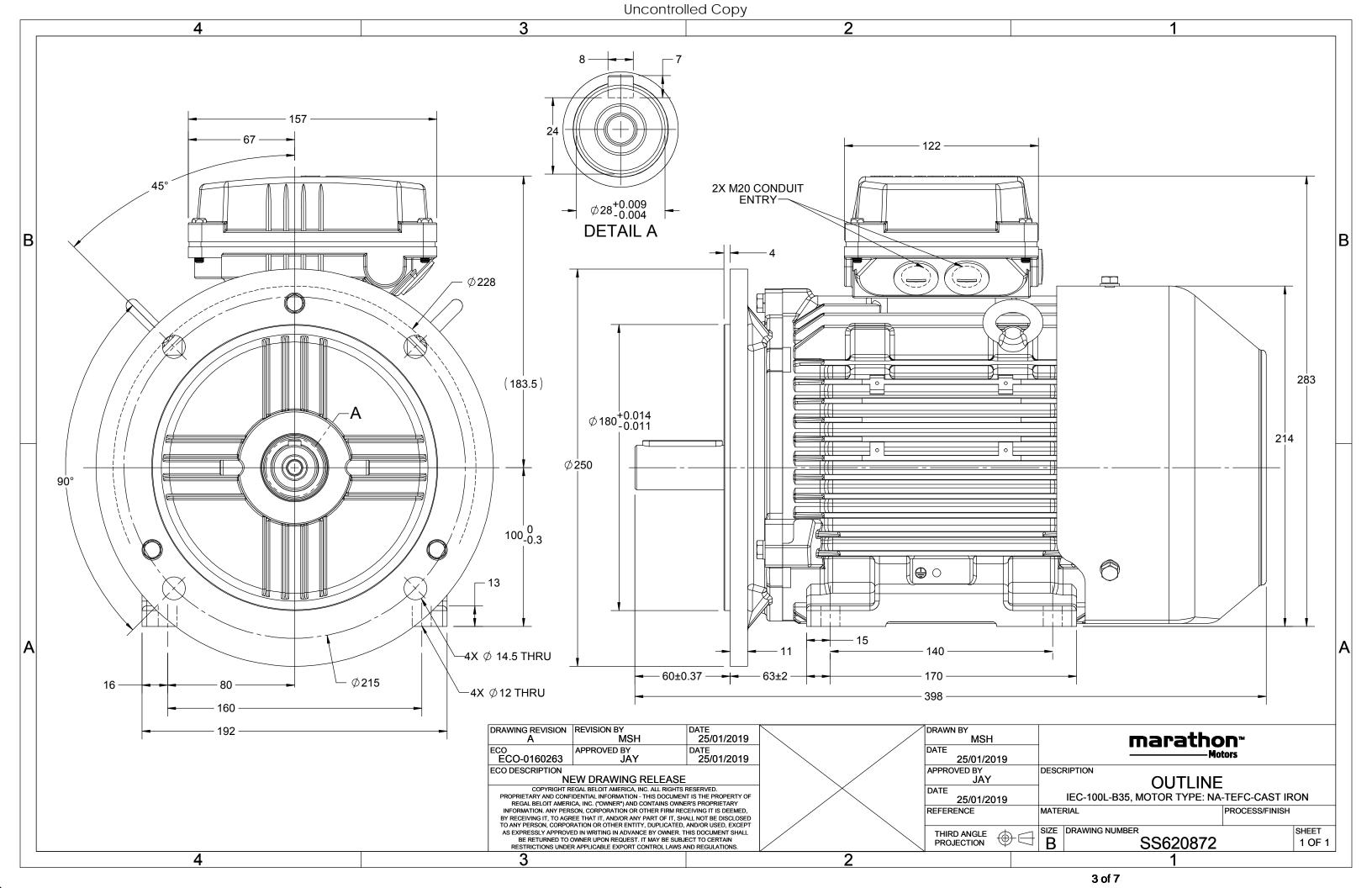
Nameplate Specifications

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>		

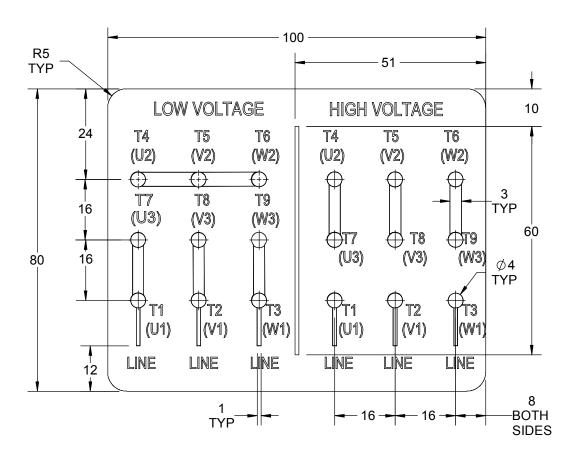
Technical Specifications

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	Shaft Diameter	28.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620872	Connection Drawing	8442000675

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GENERAL 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[™]



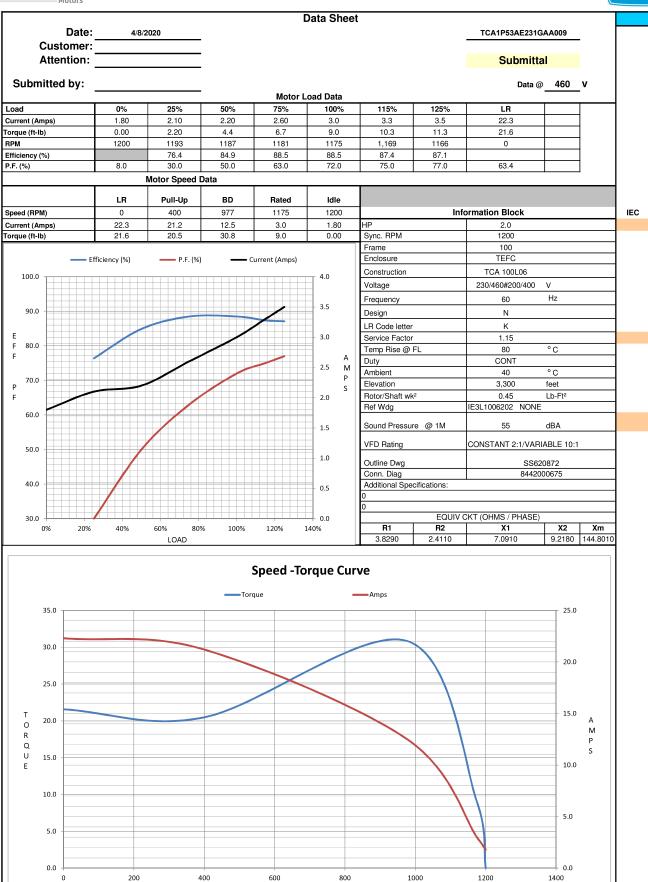
									P.O. BOX 8003			
						WAUSAU, WI 54401-8003						
									PH. 715-675-331	1		
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA SI	HEET					
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENC		TCA1P53AE231G			-
CONN. DIA		8442000675					011070	CAT #:	-	R820		
OUTLINE:		SS620872	NONE					MER PART #: MOUNTING:	F0			
WINDING: SPEED:		IE3L1006202	NONE	2				MOUNTING:	rs			
SPEED.				т	VDIC AI	MOTOR PERFORMA	NCE DA	тл				
					IFICAL	WICTOR FERFORWIA	NCEDA	IIA.	T	I		
HP	ĸw	SYNC RPM	FL	. RPM	FRAME		ENCL	LOSURE	TYPE	KVA C	ODE	DESIGN
_	4.5	1000		475		4001	-		TO 4 4001 400			
2	1.5	1200	1	175		100L	ı	EFC	TCA 100LA06	К		N
PH	HZ	VOLTS	Δ	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	6/38	5.4/2.7	ı	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	88.5		1/2 LD EFF	84.9	GTD EFF		ELECT. T		
	F.L. PF	72.0	3/4 LD PF	63.0		1/2 LD PF	50.0	86.8		SQ CAGE IN\	/ RATED	
		T		ī						ı		
	TORQUE	LR AMPS @	460 V		L.R. TORQUE			B.D. TOR			E (° C)	
9.0	LB-FT	22.3		21.6	LB-FT	240%	30.8	LB-FT	342%	80		
SOUND	PRESSURE @ 3								1			
*******	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
55	dBA	64 dBA	0.45	LB-FT ²	0.45	LB-FT ²	15	SEC.		2	45	KG.
			*								•	•
					*** SU	PPLEMENTAL INFORMA						
	**************************************	005 0040/57 7/05	MOUNT TYPE MOTOR ORIE		RIENTATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS		
	ACKET TYPE LANGE-215	ODE BRACKET TYPE STANDARD	B3	MOTOR ORIENTATION SE HORIZONTAL		NO NO		ONE	NO NO	NONE	PAINT BLUE (ENAMEL)	
FF-F	LANGE-215	STANDARD		HORIZO	NIAL	NO	IN	ONE	NO	INOINE	BLUE (I	INAIVIEL)
В	EARINGS											
DE	ODE	GREASE	SHA	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	CTANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6206	6206	POLTREX EIVI	STAIN	JARD IEC		NONE	IN	ONE	1045 HOT R	(OLLED (C-204)	CASI	IRON
											SPACE	HEATERS
THERMOSTATS PROTECTORS			WDG RTD's		BRG RTD's		THERMISTORS		CONTROL			
	NONE	NOT	l N	ONE		NONE	N	ONE	F	ALSE		۱A
D1	(ohme/ph)	R2 (ohms/ph)	Y1 (o	hme/nh)		X2 (ohms/ph)	Ym (c	hme/nh)	VIRDAT	ION (in/sec)		OAT
		2.411				9.218	Xm (ohms/ph) 144.801		0.150		ODE	
	0.025	2.411		.001		3.210		4.001				DL
*												
N								INV	ERTER TORQUE:	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:	11/27/2020						FT-LB:		NA		
EODM: 25	FORM: 3531 REV 4 2/27/06						VOLTAGE:	CONST UL REC	IONE		HZ:	
FURIVI: 35	31 KEV_4	2/2//06					UL:	v - LI,IVIE-INS	CONST UL REC			











REGAL

RPM



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: TCA1P53AE231GAA009

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

Catalog No : R820
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:

J. Clir

Michael A. Logsdon Vice President, Technology Julian Clark Marketing Engineer

Authorized Representative in the Community:

Created on 09/01/2022

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