PRODUCT INFORMATION PACKET



Model No: TCA2P23AE251GAA009

Catalog No: R923

TerraMAX® Cast Iron Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

112M Frame, TEFC





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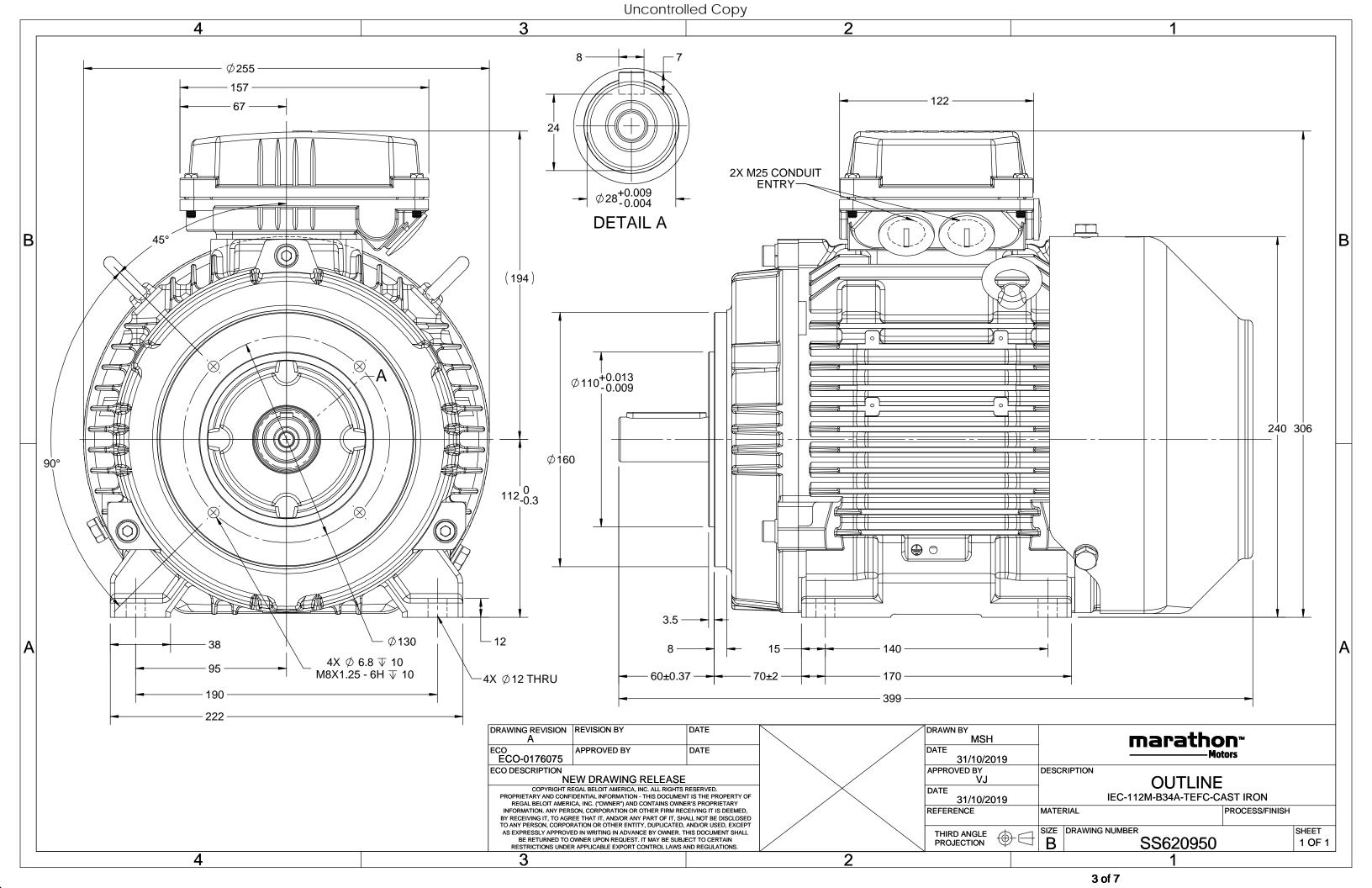
Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 200/400 V
Speed	1170 & 980 rpm	Service Factor	1.15 & 1.15
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 82.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.8/4.4 & 8.2/4.1 A	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	М
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

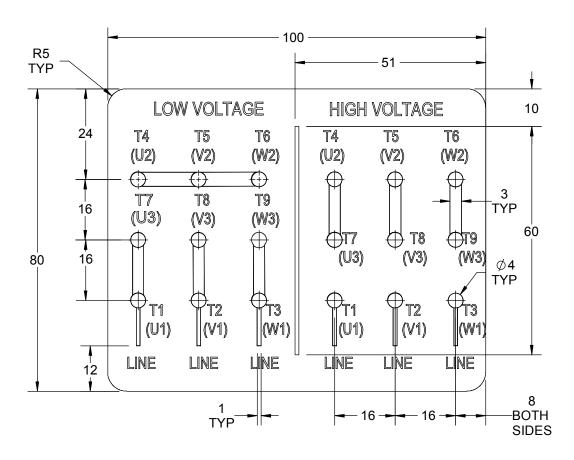
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	3.31 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	SS620950	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 544 PH. 715-675-3311 DATA VOLTS:			
	CERTIFICATION DATA SHEET											
CUSTOMER: ORDER #: CONN. DIAGRAM: 8442000675 OUTLINE: \$\$620950		8442000675 \$\$620950					CUSTOMER P.O. #: REFERENCE MODEL #: CAT #: CUSTOMER PART #:		: TCA2P23AE251GAA009 : R923			
WINDING:		IE3L1126201	NONE	1				MOUNTING:				
SPEED:				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
НР	kw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CC	DDE	DESIGN
3	2.2	1200		1170		112M	Т	EFC	TCA 112MA06	М		N
						-		-				
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	8.8/4.	4&8.2/4.1	l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF	89.5	3/4 LD EFF	89.5		1/2 LD EFF	F 83.4 GTD EFF		ELECT. TYPE		YPE	
	F.L. PF	70.0	3/4 LD PF	61.0		1/2 LD PF	50.0	87.9	SQ CAGE INV RATED			
F.L	TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TORG		QUE F.L. RISE		(° C)	
13.5	LB-FT	38.2		43.6 LB-FT 323%		51.4 LB-FT		381% 80				
	UND PRESSURE @ 3 FT. SOUND POWER ROTOR WK ²			MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT	
55	dBA	64 dBA	0.50	LB-FT ²	0.5 LB-FT²		15 SEC .		2		59	KG.
					*** SU	PPLEMENTAL INFORMA	TION ***					
DE BRACKET TYPE ODE BRACKET T		ODE BRACKET TYPE	MOUNT TYPE			ATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER SCREENS		INT
	LANGE-130	STANDARD	B3		HORIZONTAL NO			ONE	NO NONE		BLUE (ENAMEL)	
В	EARINGS	005405			Ι	005044 05	2050					
DE	ODE	GREASE	SE SHAFT TYPE		SPECIAL DE		SPEC	IAL ODE	SHAFT MATERIAL		FRAME MATERIAL	
BALL 6306	BALL 6206	POLYREX EM	STAN	DARD IEC	NONE		N	ONE	1045 HOT ROLLED (C-204)		CAST IRON	
					1				1			
THERMOSTATS PROTECTORS		WD	WDG RTD's		BRG RTD's		MISTORS	cor	NTROL	SPACE	HEATERS	
NONE NOT		N	NONE		NONE		ONE	F/	ALSE	NA		
R1 (ohms/ph) R2 (ohms/ph)		R2 (ohms/ph)	X1 (c	X1 (ohms/ph)		X2 (ohms/ph)		hms/ph)	VIBRATION (in/sec)		FLOAT	
1.986 1.702 6.146			7.469		94	1.454	0	.150	0	DE		
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAR	NABLE 10:1	
E S *								ENCODER: NONE NONE	NONE		NONE	PPR
	PREPARED BY:						BRAKE: NONE NONE NONE NONE					
DATE: 11/27/2020							FT-LB: NA VOLTAGE: NONE HZ: UL: V-LI,ME-INS,CONST UL REC					
FORM: 3531 REV_4 2/27/06								V - LI,ME-INS,	CONST UL REC			

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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: TCA2P23AE251GAA009

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

Catalog No: R923 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. cerse

Authorized Representative in the Community:

Michael A. Logsdon

Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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