PRODUCT INFORMATION PACKET



Model No: TCA0042AE251GAA009

Catalog No: R925

TerraMAX® Cast Iron Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

112M Frame, TEFC





Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



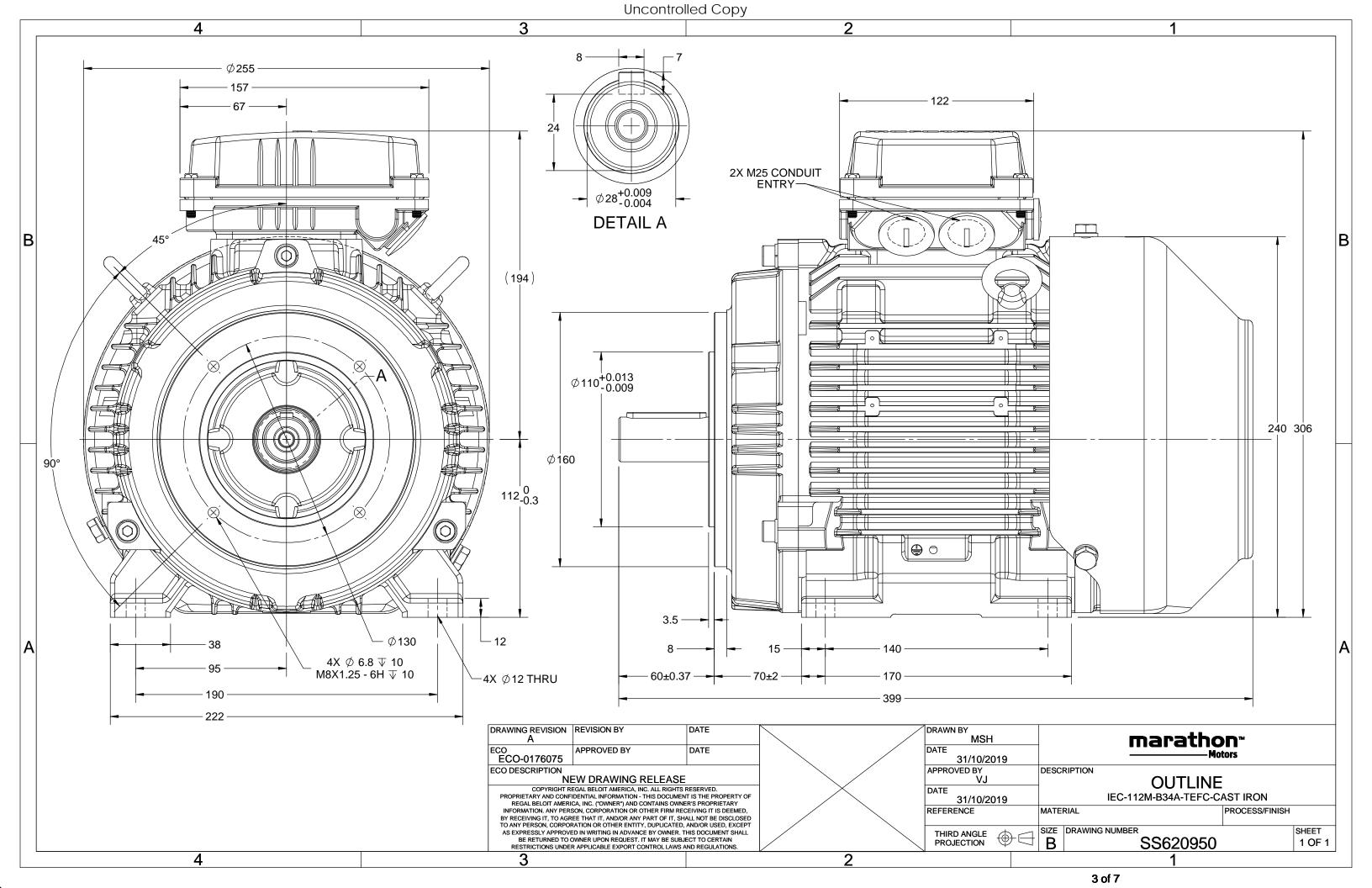
Nameplate Specifications

Phase	3	Output HP	5.50 & 4 Hp
Output KW	4.0 & 3.0 kW	Voltage	230/460 & 200/400 V
Speed	1765 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 87.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	13.8/6.9 & 13/6.5 A	Power Factor	80
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	4	Rotation	Reversible			
Resistance Main	2.33 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	8442000730			

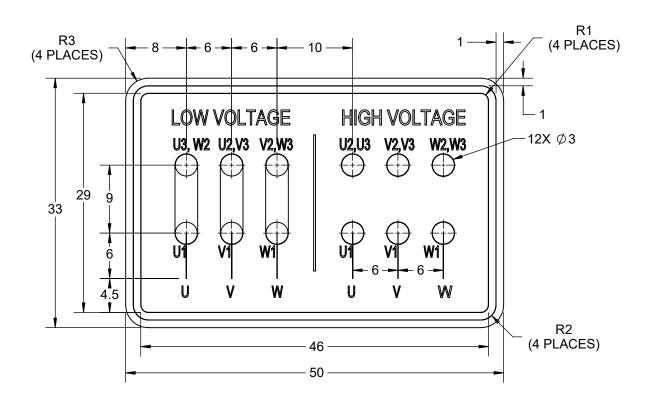
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/22/2023



COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION, ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED. BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

DRAWING REVISION	DEVISION DV	REV DATE/© DATE
DRAWING REVISION		
l A	LK	14/7/2021
ECO	APPROVED BY	DATE
CR-0003544	JAY	14/7/2021
ECO DESCRIPTION	1	L
	NEW DRAWING	

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY 3. THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: U1-U3, V1-V3 AND W1-W3 OF ARIAL WITH 3mm SIZE 4.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LK DATE 14/7/2021	REGAL ® Regal Beloit America, Inc.				
	APPROVED BY JAY DATE 14/7/2021	DESCRIPTION CONN DIAGRAM-NAMEPLATE 9LEADS - DELTA CONNECTION				
	REFERENCE	MATERIAL REFER NOTES PROCESS/FINISH				
	THIRD ANGLE PROJECTION	A B442000730	SHEET 1 OF 1			



TerraMAX[™]



									P.O. BOX 8003			
						WAUSAU, WI 54401-8003						
									PH. 715-675-331	1		
									DATA VOLTS:	460		
					CE	RTIFICATION DATA S	HEET					
CUSTOME	R:							OMER P.O. #:				
ORDER #:							REFERENC	CE MODEL #:	TCA0042AE251G	AA009		
CONN. DIA	AGRAM:	8442000676						CAT #:	F	R925		
OUTLINE:		SS620950					CUSTO	MER PART #:				
WINDING:		IE3L1124201	NONE	1				MOUNTING:	F3			
SPEED:												
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
		0.410 PPM		DD11			- FNO	001105				55000
HP	kw	SYNC RPM	FL	RPM		FRAME	ENCL	OSURE	TYPE	KVA C	JDE	DESIGN
5.5	4.00	1800	1	765		112M	т	EFC	TCA 112MB04	м		N
					!					Į.		
									T		T	
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	13.8/6	.9&13/6.5		INE OR INVERTER	С	ONT	F	1.15	40	3300
		I I										
	F.L. EFF		3/4 LD EFF	91.7		1/2 LD EFF	87.4	GTD EFF		ELECT. T		
	F.L. PF	80.0	3/4 LD PF	72.0		1/2 LD PF	61.0	90.5		SQ CAGE IN\	/ RATED	
				ı							0 =:	1
	. TORQUE	LR AMPS @	460 V	540		TORQUE	04.4	B.D. TOR		F.L. RISE	: (° C)	
16.4	LB-FT	71.3		54.3	LB-FT	331%	64.1	LB-FT	391%	80		
SOLIND	PRESSURE @ 3											
JOUND	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR*	TS/HOUR	APROX.	MOTOR WGT
62	dBA	71 dBA		LB-FT ²	0.46			2		58	KG.	
			,									
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT					RDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE		SEVERE DUTY		ATION	DRIP COVER	SCREENS	PAINT	
FT-F	LANGE-130	STANDARD	B3 HORIZON		NTAL NO		NONE		NO	NONE	BLUE (E	ENAMEL)
											_	
	EARINGS	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
DE	ODE BALL											
BALL 6306	6206	POLYREX EM	STANI	DARD IEC	NONE NONE		ONE	1045 HOT ROLLED (C-204)		CAST	T IRON	
6306	6206											
					1				1			
THE	RMOSTATS	PROTECTORS	wno	RTD's		BRG RTD's	THER	MISTORS	COL	NTROL	SPACE	HEATERS
	NONE	NOT		NONE		NONE		ONE	FALSE		NA	
	110.112			0.12	-	110112		0.12				
R1 (ohms/ph)		R2 (ohms/ph)	X1 (o	hms/ph)	X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
	1.444	0.825	2	.733	3.249		72	2.098	0.150		ODE	
					•						•	
*												
N							INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1					
0						INV. HI	SPEED RANGE:	NONE				
Т												
E						ENCODER: NONE						
S								NONE				
•					NONE NONE PPR				PPR			
						BRAKE:						
	PREPARED BY:						NONE NONE					
	DATE:	11/27/2020						FT-LB:		NA		
l							VOLTAGE: NONE HZ: UL: V - LI,ME-INS,CONST UL REC					
FORM: 35	RM: 3531 REV_4 2/27/06						UL:	V - LI,ME-INS	CONST UL RÉC			











REGAL



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: TCA0042AE251GAA009

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

Catalog No : R925
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

(€ 22