PRODUCT INFORMATION PACKET



Model No: TCA0042AE231GAA009

Catalog No: R825

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

112M Frame, TEFC





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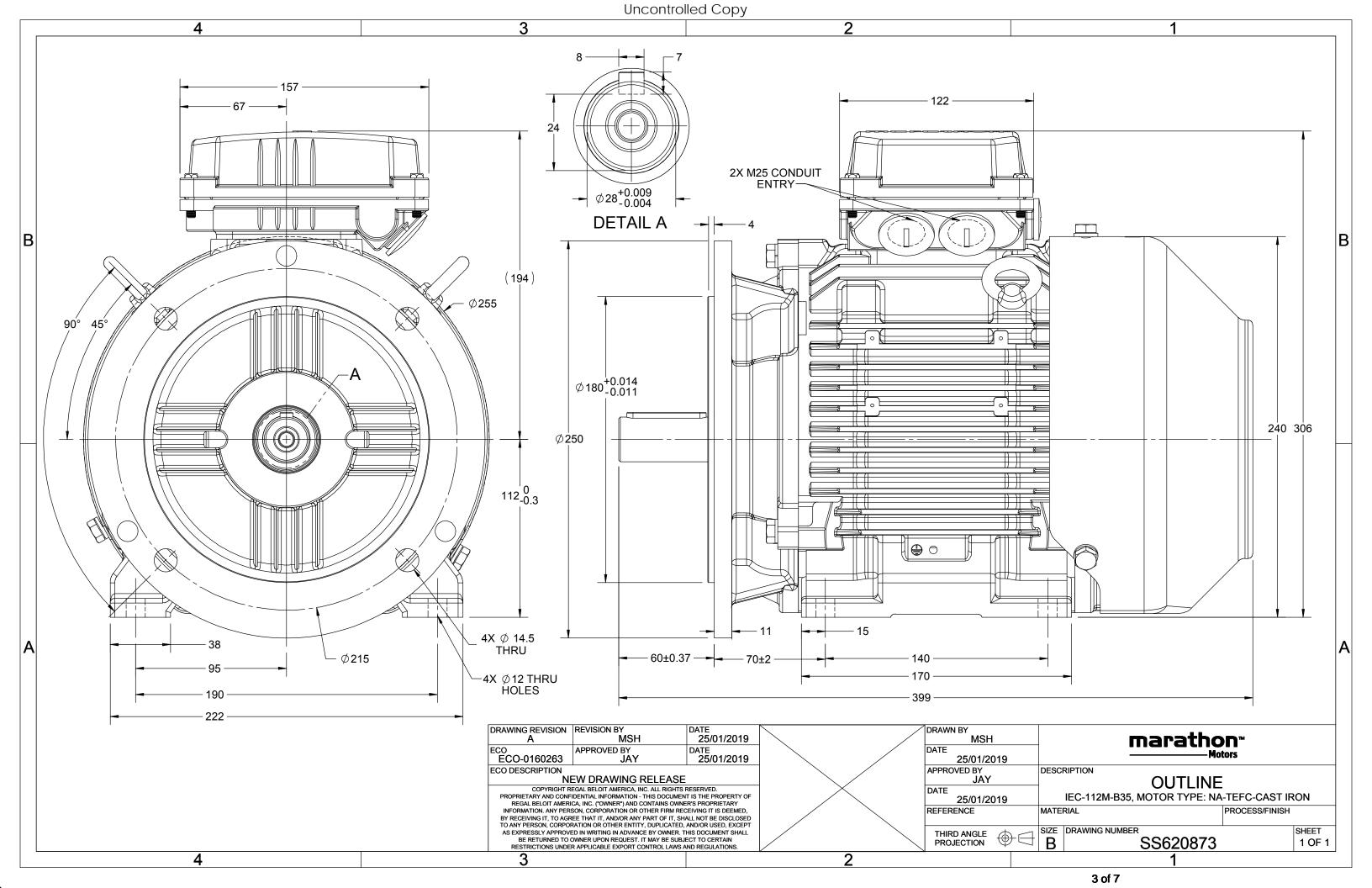
Nameplate Specifications

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			
Connection Drawing	8442000730	Outline Drawing	SS620873			

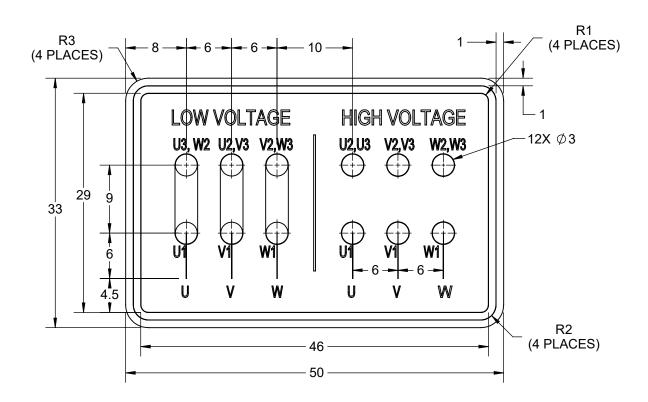
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DRAWING REVISION	DEVISION DV	REV DATE/© DATE
DRAWING REVISION		
l A	LK	14/7/2021
ECO	APPROVED BY	DATE
CR-0003544	JAY	14/7/2021
ECO DESCRIPTION	1	L
	NEW DRAWING	

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 544	101_8003		
									PH. 715-675-331			
									PH. /10-0/0-331	ı		
									DATA VOLTS:	460		
					051	DTIFICATION DATA O						
					CEI	RTIFICATION DATA SI	HEEI					
CUSTOME	R:						CUST	OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #	TCA0042AE231G	AA009		•
CONN. DIA		8442000676						CAT #:		R825		-
										(020		
OUTLINE:		SS620873					CUSTOMER PART #:					
WINDING:		IE3L1124201	NONE	1				MOUNTING:	F3			
SPEED:												
		-		T,	YPIC AI	MOTOR PERFORMA	NCE DA	ТΔ				
			1	<u>_</u>	II IOAL	MOTORT LIN ORMA	NOL DA					1
HP	kw	SYNC RPM		. RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	NDE	DESIGN
nr	I KVV	STNC RPW	FL	. KFW		FRANE	ENC	LUSURE	ITE	RVAC)DE	DESIGN
5.5	4.00	1800	Ι.	1765		112M	-	EFC	TCA 112MB04	м		N
5.5	4.00	1600		1/00		I I ZIVI		EFC	TCA TTZIVIBU4	IVI		IN
											1	
PH	HZ	VOLTS	_ A	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		LINE OR INVERTER	C	ONT	F	1.15	40	3300
		•				•			•		•	•
	F.L. EFF	01.7	3/4 LD EFF	91.7		1/2 LD EFF	87.4	GTD EFF		ELECT. T	VDE	
-												
	F.L. PF	80.0	3/4 LD PF	72.0		1/2 LD PF	61.0	90.5		SQ CAGE INV	RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
16.4	LB-FT	71.3		54.3	LB-FT	331%	64.1	LB-FT	391%	80	l` ´	
10.1		71.0		01.0		00170	01.1		00170	- 00		
SOUND	PRESSURE @ 3											
I SOUND !	FT.	SOUND POWER	BOT	OR WK²		MAX. LOAD WK ²	CAEEC	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT
						LB-FT ²			STAR			
62	dBA	71 dBA	0.46	LB-FT ²	0.46	LB-F1	7	SEC.		2	59	KG.
			`									
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT				HAZA	ARDOUS				
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE	NTATION	SEVERE DUTY	LOC	ATION	DRIP COVER	SCREENS	P.A	INT
FF-F	LANGE-215	STANDARD	B3	HORIZON	ITAI	NO		ONE	NO	NONE	BLUE (F	ENAMEL)
	LI WOL LIO	0174187418		THOTALEON	*17.12			0.112	110	110112	DEGE (
			1						I		1	
	EARINGS	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME	MATERIAL
DE	ODE			0.200.202								
BALL BALL BOLVESY SM		POLYREX EM	CTAN	IDARD IEC NONE			ONE	1045 HOT ROLLED (C-204) CAS		CAST	RON	
6306	6206	FOLTREX EM	STAIN	DAND IEC		NONE	IN.	ONE	1045 1101 1	OLLED (C-204)	CASI	IKON
-			1									
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL		
	NONE	NOT	l N	ONE		NONE	N	ONE	F.	ALSE	١	۱A
R1	(ohms/ph)	R2 (ohms/ph)	X1 (c	hms/ph)		X2 (ohms/ph)	Xm (c	hms/ph)	VIBRAT	ION (in/sec)	FL	OAT
	1.444	0.825		2.733 3.249			2.098	0.150		ODE		
		0.020	-			0.2.10		2.000		.100		<u></u>
*												
N O				INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1								
					INV. H	SPEED RANGE:	NONE					
Т												
Ē							ENCODER: NONE					
									HONE			
S							NONE					
*								NONE			NONE	PPR
								BRAKE:	NONE			
1	PREPARED BY:								NONE	NON	F	
1	DATE:							FT-LB:		NA		
1	DATE	2/12020										,
						<u>ļ</u> .		VOLTAGE:		ONE		HZ:
I FORM: 35	31 REV 4	2/27/06					UL:	v - LI,ME-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: TCA0042AE231GAA009

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

Catalog No : R825
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. cers

Julian Clark

Michael A. Logsdon Vice President, Technology

Marketing Engineer

Created on 09/01/2022

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