PRODUCT INFORMATION PACKET

Model No: TCA0041AE231GAA009 Catalog No: R824 TerraMAX® Cast Iron Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 112M Frame, TEFC



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Motors

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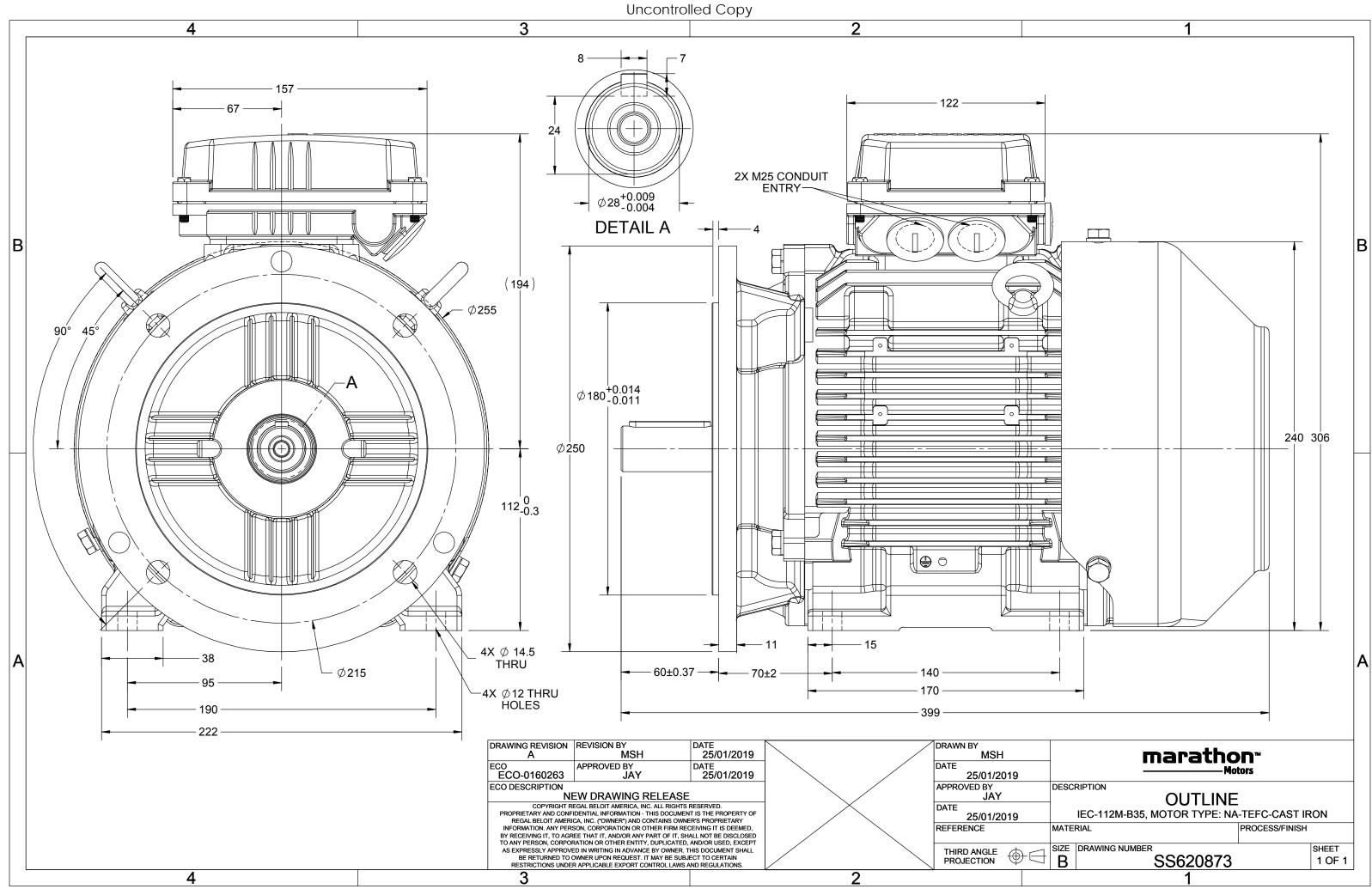
Nameplate Specifications

Phase	3	Output HP	5.50 & 4 Hp			
Output KW	4.0 & 3.0 kW	Voltage	230/460 & 200/400 V			
Speed	3520 & 2940 rpm	Service Factor	1.15 & 1.15			
Frame	112M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	89.5 & 87.1 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	12.4/6.2 & 11.2/5.6 A	Power Factor	91			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206			
UL	Recognized	CSA	Ν			
CE	Υ	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

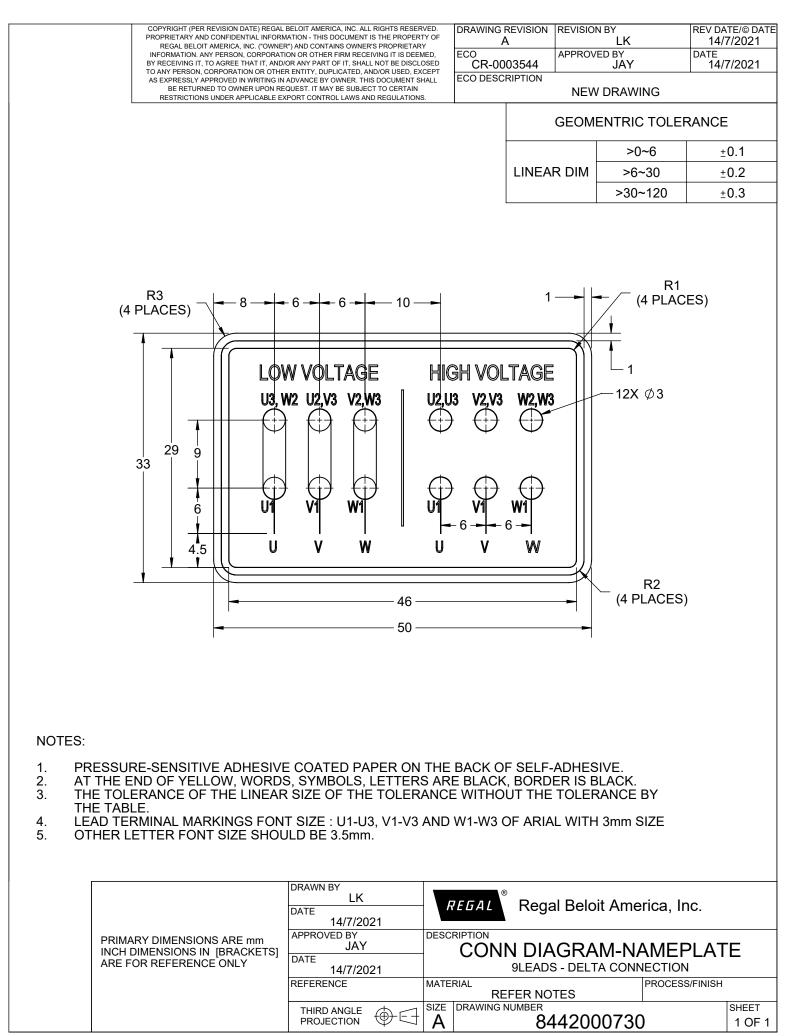
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	2	Rotation	Reversible			
Resistance Main	3.17 Ohms	Mounting	B3			
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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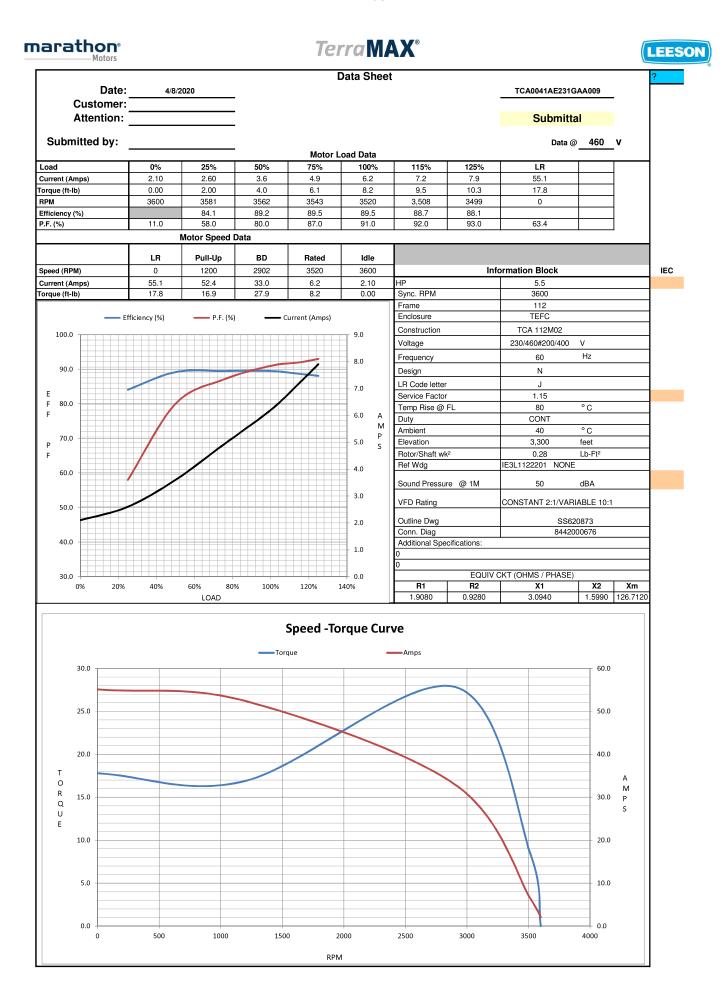




									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
									PH. 715-675-331	1		
									DATA VOLTS:	460		
									DATA VOLIS.	400		
					05	RTIFICATION DATA S	UFFT					
					UE	RIFICATION DATA S						
CUSTOME				-				OMER P.O. #:				
ORDER #:							REFERENCE MODEL #: CAT #:					
CONN. DI		8442000676							R824			
OUTLINE:		SS620873				CUSTOMER PART #:						
WINDING:		IE3L1122201	1 NONE	1				MOUNTING:	F3			
SPEED:		_										
				٦	TYPICAL	. MOTOR PERFORMA	NCE DA	TA				
HP	KW	SYNC RPM	F	LRPM		FRAME	ENC	LOSURE	TYPE	KVA C	ODE	DESIGN
							-					
5.5	4.00	3600		3520		112M		EFC	TCA 112MA02	J		N
РН	HZ	VOLTS	1	MPS	1	START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400		.2&11.2/5.6		LINE OR INVERTER		ONT	F	1.15	40	3300
3	00/30	230/400#200/400	12.4/0	.20(11.2/5.0					Г	1.15	40	3300
	F.L. EFF	00.5	3/4 LD EFF	00.5	1		00.0	GTD EFF		ELECT.		
	F.L. EFF F.L. PF					1/2 LD EFF	89.2					
	F.L. PF	91.0	3/4 LD PF	87.0		1/2 LD PF	80.0	87.9		SQ CAGE IN	VRATED	
				1							- (0, -)	
	TORQUE	LR AMPS @	460 V				B.D. TOR		F.L. RIS	E (° C)		
8.2	LB-FT	55.1		17.8	LB-FT	217%	27.9	LB-FT	340%	80		
			-						1		- I	
SOUND	PRESSURE @ 3	SOUND POWER		OR WK ²		MAX LOAD W/K3	0455.0	TALL TIME	CT AD		APROX.	MOTODWOT
	FT.					MAX. LOAD WK ²			STAR	TS/HOUR		MOTOR WGT
68	dBA	77 dBA	0.28	LB-FT ²	0.28	LB-FT ²	7	SEC.		2	55	KG.
		1	MOUNT		*** SL	PPLEMENTAL INFORMA			1		-	
DE BRACKET TYPE ODE BRACKET TYPE		TYPE			SEVERE DUTY	HAZARDOUS LOCATION		DRIP COVER	RIP COVER SCREENS		INT	
	LANGE-215	STANDARD	B3	HORIZO		NO		IONE	NO	NONE		ENAMEL)
11-1	LANGL-215	STANDARD	05	HONZO		NO			NO	INONE		
	EARINGS	1	1		1				1		1	
DE	ODE	GREASE	SHA	SHAFT TYPE SPE		SPECIAL DE SI	SPEC	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
BALL	BALL											
		POLYREX EM	STAN	DARD IEC	NONE		N	IONE	1045 HOT F	ROLLED (C-204) CA		IRON
6306	6206											
			1		1						1	
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL		
	NONE	NOT	1	IONE		NONE	N	IONE	F	ALSE	N	IA
			1		1							
R1 (ohms/ph)		R2 (ohms/ph)		ohms/ph)				ohms/ph)	VIBRATION (in/sec)		ODE	
	1.908	0.928		3.094		1.599	12	6.712	(.150	0	DE
	1											
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE							
0												
т												
E								ENCODER:	NONE			
S								NONE				
*								NONE			NONE	PPR
								BRAKE:	NONE			
	PREPARED BY:							1	NONE	NO	NE	
1	DATE:	11/27/2020						FT-LB:		NA		
							VOLTAGE: NONE HZ					
FORM: 3531 REV_4 2/27/06				UL: V - LI,ME-INS,CONST UL REC								

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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 : TCA0041AE231GAA009

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

Catalog No : R824

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer