PRODUCT INFORMATION PACKET

Model No: TCA0451AE231GAA009 Catalog No: R854 TerraMAX® Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 225M Frame, TEFC



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Motors







Product Information Packet: Model No: TCA0451AE231GAA009, Catalog No:R854 TerraMAX® Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 225M Frame, TEFC

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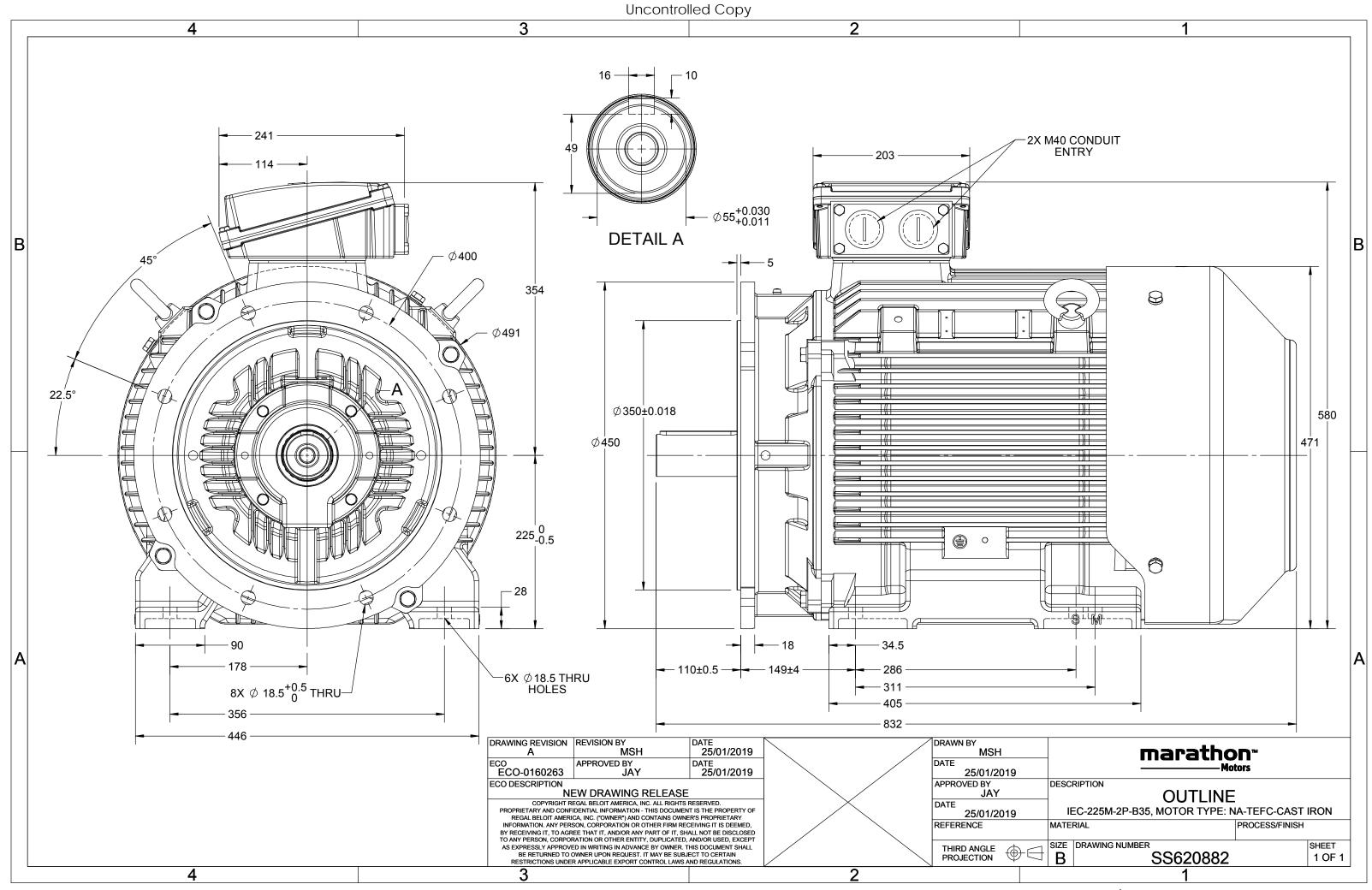
Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp			
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 200/400 V			
Speed	3575 & 2975 rpm	Service Factor	1.15 & 1.15			
Frame	225M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	93.6 & 93.7 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	138/69 & 132/66 A	Power Factor	88			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	G			
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

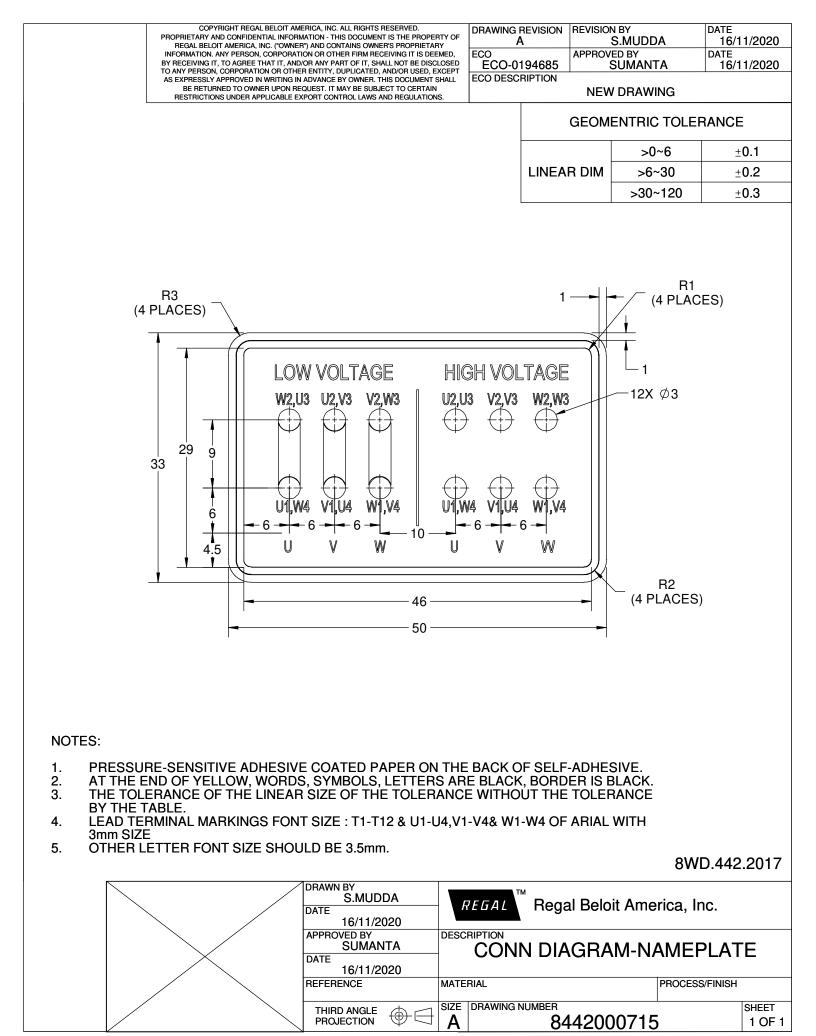
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	2	Rotation	Selective Clockwise			
Resistance Main	.11 Ohms	Mounting	B3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	55.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing 8442000715		Outline Drawing	SS620882			

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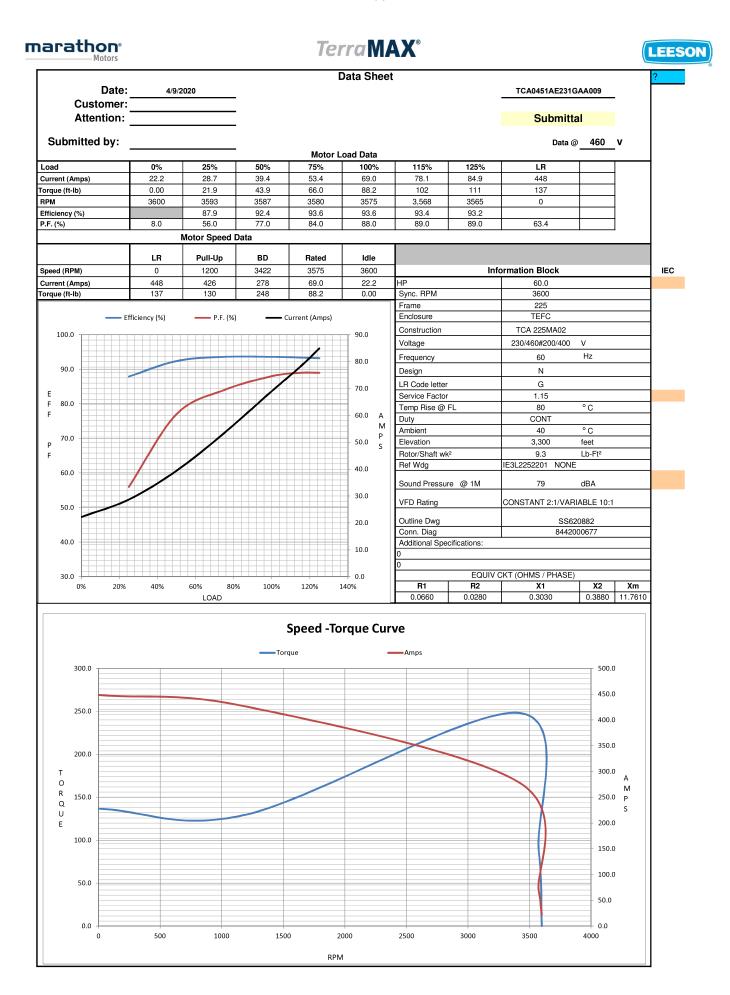




									P.O. BOX 8003				
				WAUSAU, WI 54401-8003									
								PH. 715-675-331					
										•			
									DATA VOLTS:	460			
					CE	RTIFICATION DATA S	HEET						
					02								
CUSTOME				_				OMER P.O. #:					
ORDER #:						REFERENCE MODEL #: CAT #:							
CONN. DI		8442000677							R854				
OUTLINE:		SS620882					CUSTOMER PART #:						
WINDING:		IE3L2252201	NONE	1				MOUNTING:	F3				
SPEED:				-		. MOTOR PERFORMA		ТА					
нр	ĸw	SYNC RPM	FL RPM		FRAME		ENCLOSURE					DESIGN	
пр	r.vv	STNC RPW				FRAME	ENC	LUSURE	TYPE	KVA CODE		DESIGN	
60	45	3600		3575		225M	т	EFC	TCA 225MA02	2 G		Ν	
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	138/6	9&132/66		LINE OR INVERTER	C	ONT	F	1.15	40	3300	
	F.L. EFF	93.6	3/4 LD EFF	93.6		1/2 LD EFF	92.4	GTD EFF		ELECT.	TYPE		
	F.L. PF	88.0	3/4 LD PF	84.0		1/2 LD PF	77.0	92.6		SQ CAGE IN	V RATED		
F.L. TORQUE LR AMPS @ 460 V		L.R. TORQUE		B.D. TOR	RQUE F.L. RI		E (° C)						
88.2 LB-FT 448 137		137	LB-FT 155% 248		248	248 LB-FT 281%		80					
SOUND	PRESSURE @ 3	SOUND POWER	BOT	OR WK ²		MAX. LOAD WK ²		TALL TIME	STAD	TS/HOUR	APROX.	MOTOR WGT	
79	FT. dBA	88 dBA	9.3	LB-FT ²	9.3	LB-FT ²	15	SEC.	STAR	2		KG.	
19	UBA	00 UBA	, 9.5	20-11	9.5		15	SEC.		2	419	KG.	
					*** SU	IPPLEMENTAL INFORMA	TION ***						
			MOUNT				HAZARDOUS						
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORI		SEVERE DUTY		CATION	DRIP COVER	SCREENS		INT	
FF-F	LANGE-400	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	NAMEL)	
		1							1		1		
	EARINGS	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME	IATERIAL	
DE	ODE												
BALL	BALL	SG S5-V100	STAN	DARD IEC	NONE		N	IONE	1045 HOT F	OLLED (C-204)	CAST	CAST IRON	
6313	6213												
			1		1						1		
тне	RMOSTATS	PROTECTORS	wn	G RTD's		BRG RTD's	THER	MISTORS	0	NTROL	SPACE	HEATERS	
	NONE	NOT NONE		NONE		NONE		FALSE		NA			
	NONE	NOT	· ·			NONE				ALUL			
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	ns/ph) X2 (ohms/ph)		Xm (c	ohms/ph)	VIBRATION (in/sec)		FLOAT		
0.066		0.028		0.303	0.388			1.761	0.150		ODE		
									1				
*													
N	N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0							INV. HP SPEED RANGE: NONE						
т													
Е								ENCODER:	NONE				
s							1	NONE					
*								NONE			NONE	PPR	
								BRAKE:	NONE				
1	PREPARED BY:						l	1	NONE	NO	NE		
	DATE:	11/27/2020						FT-LB:		NA			
1											HZ:		
FORM: 35	531 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 : TCA0451AE231GAA009

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

Catalog No: R854

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