PRODUCT INFORMATION PACKET

Model No: TCA0303AE231GAA009 Catalog No: R847 TerraMAX® Cast Iron Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 225M Frame, TEFC



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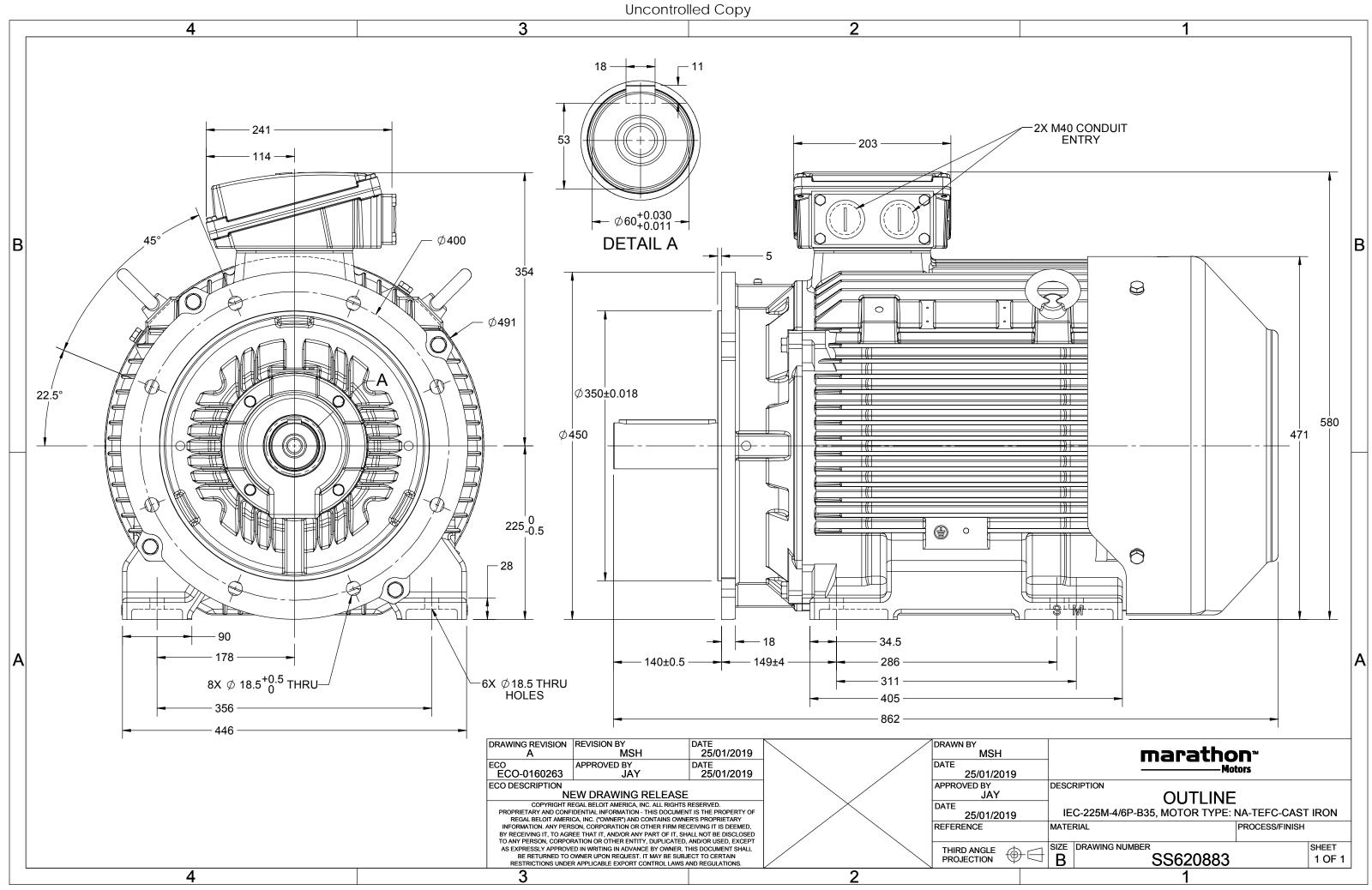
Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp 230/460 & 200/400 V		
Output KW	30.0 & 22.0 kW	Voltage			
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.15		
Frame	225M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	94.1 & 92.2 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	100/50 & 90/45 A	Power Factor	80		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	К		
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		

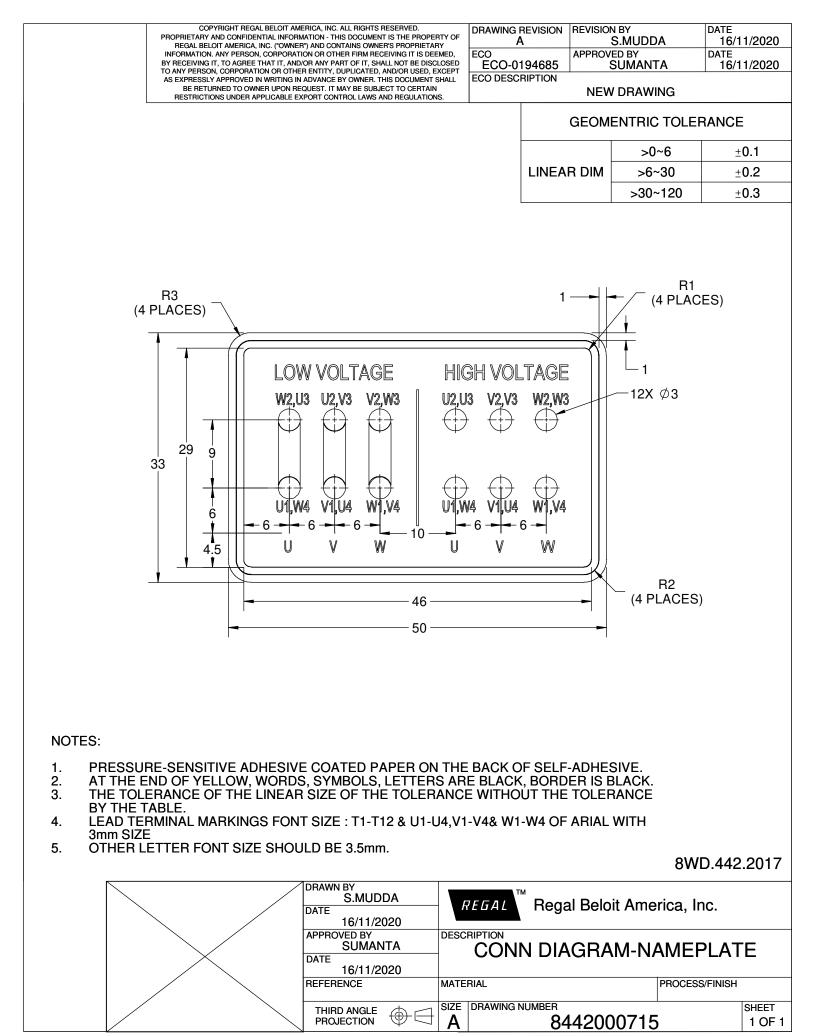
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.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	60.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620883	Connection Drawing	8442000715

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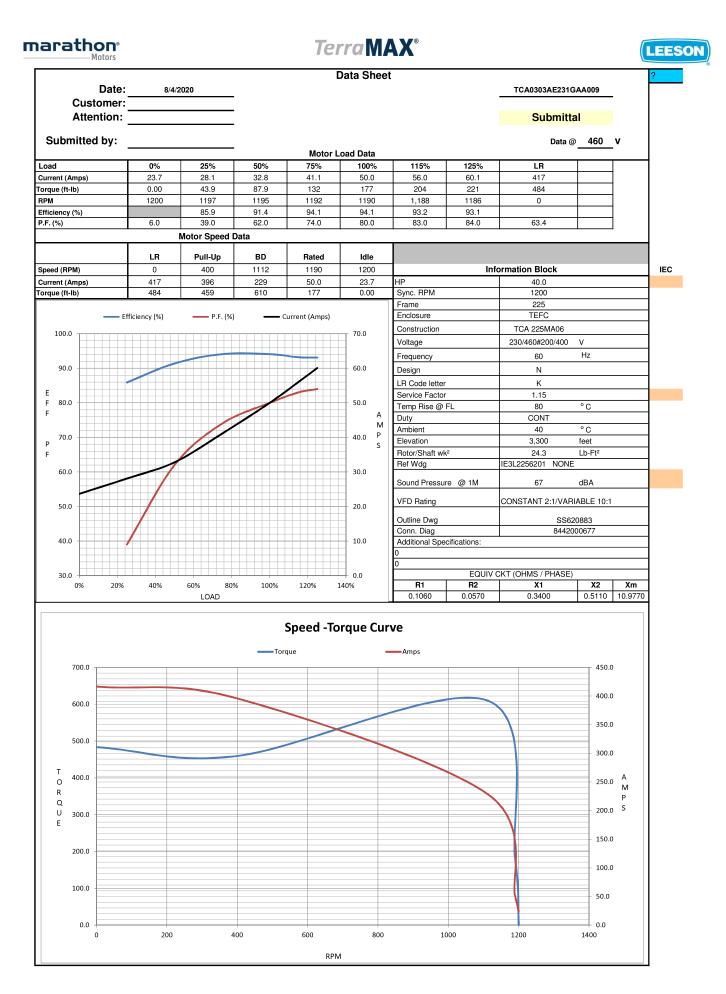




									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
						PH. 715-675-3311						
										•		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
CUSTOME	R:						CUST	OMER P.O. #:				
ORDER #:						REFERENCE MODEL						
CONN. DI		8442000677		-			CAT #:					
OUTLINE:		SS620883					CUSTOMER PART #:			(041		
WINDING:			NONE	4			00310	MOUNTING:	50			
		IE3L2256201	NONE	1				MOUNTING:	F3			
SPEED:		_		_								
				T	YPICAL	MOTOR PERFORMA	NCE DA	ATA				
HP	ĸw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
40	20	1000		1400		22514	-		TO A 005144.00			N
40	30	1200		1190		225M	1	EFC	TCA 225MA06	К		N
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
	60/50	230/460#200/400		50&90/45	-	INE OR INVERTER		CONT	F		40	3300
3	60/50	230/460#200/400	100/5	0&90/45		INE OR INVERTER	L.	ONT	F	1.15	40	3300
		1 1										
	F.L. EFF		3/4 LD EFF			1/2 LD EFF	91.4	GTD EFF		ELECT. T		
	F.L. PF	80.0	3/4 LD PF	74.0		1/2 LD PF	62.0	93.2		SQ CAGE IN	/ RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R. TORQUE			B.D. TOR	QUE	F.L. RISE	E (°C)	
177 LB-FT 417 484		484	LB-FT 273%		610 LB-FT		345% 80					
SOUND	PRESSURE @ 3											
	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
68	dBA	77 dBA	24.3	LB-FT ²	24.3	LB-FT ²	15	SEC.		2	437	KG.
												-
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT	1				ARDOUS				
DE BR	ACKET TYPE			MOTOR ORIE	MOTOR ORIENTATION SEVERE DUTY		LOCATION		DRIP COVER	SCREENS	PAINT	
	LANGE-400			HORIZONTAL		NO			NO	NONE		NAMEL)
	DITOL 100	011101110				110				HOILE		() unee)
В	EARINGS	1	1						1			
DE	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPECIAL ODE		SHAFT	MATERIAL	FRAME MATERIAL	
BALL	BALL	SG S5-V100	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6313	6213											
									1		1	
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL	-	
	NONE	NOT	N	IONE		NONE	N	IONE	E.	ALSE	N	IA
R1 (ohms/ph)		R2 (ohms/ph)	X1 (o	nms/ph) X2 (ohms/ph)			ohms/ph)	VIBRAT	ION (in/sec)		FLOAT	
0.106 0		0.057	0	0.340		0.511	10.977		0.150		ODE	
					-							
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0					INV. HP SPEED RANGE: NONE							
т						MY. IF OF LED RANGE. HOME						
								FURCHER	NONE			
E								ENCODER:	NONE			
S								NONE				
*								NONE			NONE	PPR
PREPARED BY:				BRAKE: NONE								
						1	NONE	NON	E			
				FT-LB: NA								
							VOLTAGE: NONE HZ					
FORM: 3531 REV 4 2/27/06				ľ	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 : TCA0303AE231GAA009

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

Catalog No : R847

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