PRODUCT INFORMATION PACKET



Model No: TCA0302AE231GAA009

Catalog No: R846

TerraMAX® Cast Iron Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

200L Frame, TEFC





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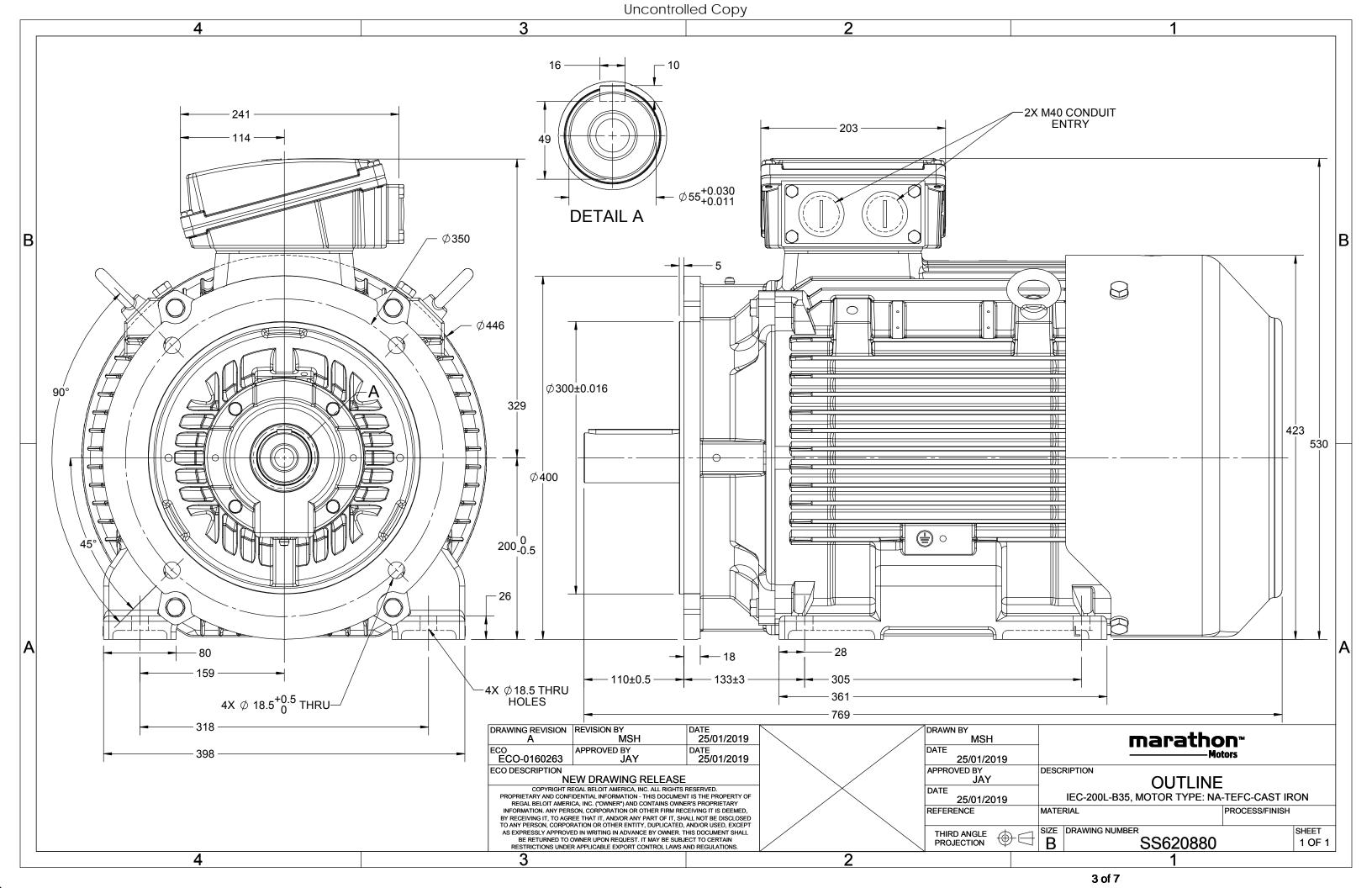
Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.0 kW	Voltage	230/460 & 200/400 V
Speed	1780 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	94/47 & 82/41 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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 Ohms	Mounting	B35			
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	SS620880			

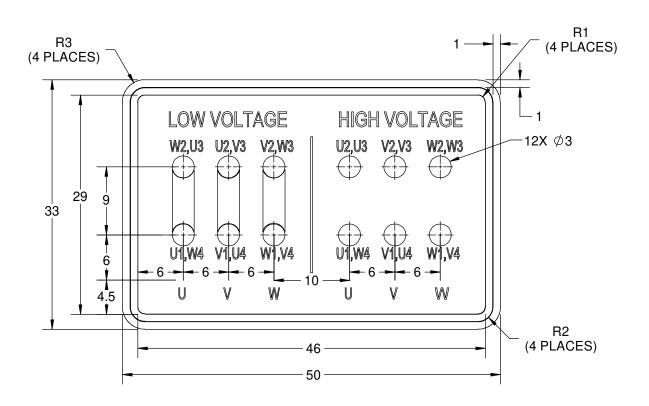
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

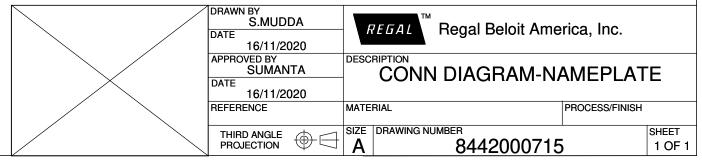
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



NOTES:

- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. 1.
- 2.
- THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 4. 3mm SIZE
- OTHER LETTER FONT SIZE SHOULD BE 3.5mm. 5.

8WD.442.2017





TerraMAX[™]



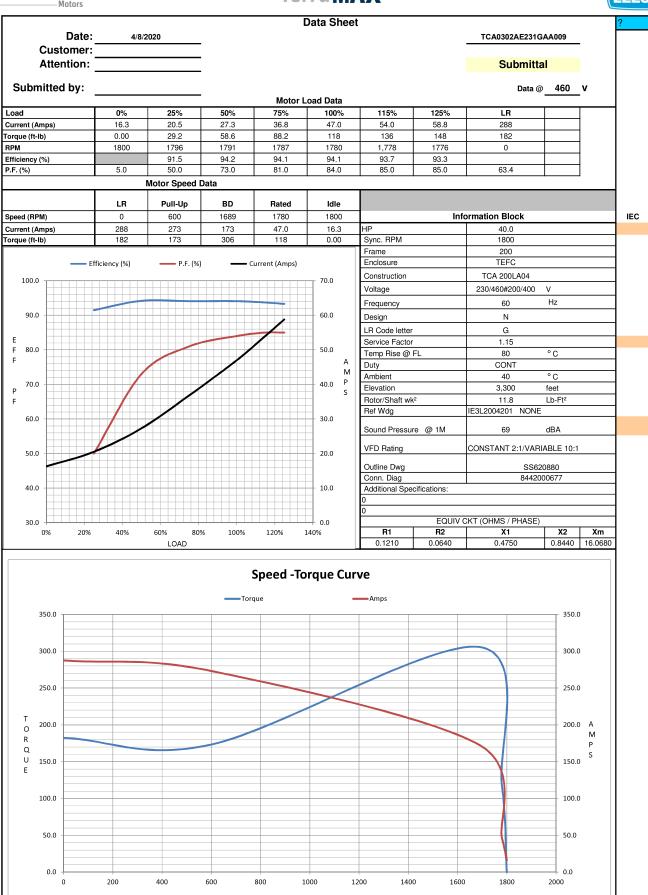
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-3311					
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA SI	HEET					
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:					-
CONN. DIA		8442000677						CAT #:		R846		
OUTLINE:		SS620880	NONE					MER PART #: MOUNTING:				
WINDING: SPEED:		IE3L2004201	NONE	1				WOUNTING:	F3			
SPEED.				т	VDIC AI	MOTOR PERFORMA	NCE DA	ТΛ				
	1			•	ITIOAL	MIOTORY ERIORMA	NOL DA	17				1
HP	ĸw	SYNC RPM	FL	. RPM		FRAME	ENCL	OSURE	TYPE	KVA CODE		DESIGN
40		1000		700		0001	_		TO 4 0001 404			
40	30	1800	1	780		200L	ı	EFC	TCA 200LA04	G		N
PH	HZ	VOLTS	Α	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	94/4	7&82/41	ı	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	94.1		1/2 LD EFF	94.2	GTD EFF		ELECT. T	YPE	
	F.L. PF	84.0	3/4 LD PF	81.0		1/2 LD PF	73.0	93.2		SQ CAGE INV	'RATED	
	. TORQUE	LR AMPS @	460 V			B.D. TORQ				≛ (° C)		
118	LB-FT	288		182	LB-FT	154%	306	LB-FT	259%	70		
SOLIND	PRESSURE @ 3								Г			
JOUND	FT.	SOUND POWER	ROT	OR WK²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	rs/Hour	APROX.	MOTOR WGT
69	dBA	78 dBA	11.8	LB-FT ²	11.8	LB-FT ²	15 SEC .		2		312 KG .	
			•						•		•	•
					*** SU	PPLEMENTAL INFORMA						
			MOUNT		HAZARDOUS		PDID GOVED GODEFNO					
	ACKET TYPE	ODE BRACKET TYPE STANDARD	TYPE		HORIZONTAL NO			ATION	NO NONE		PAINT BLUE (ENAMEL)	
FF-F	LANGE-350	STANDARD	B35	HORIZOI	NIAL	NO	N	ONE	NO	NONE	BLUE (E	ENAMEL)
	EARINGS										1	
DE .	ODE	GREASE	SHAI	T TYPE		SPECIAL DE	SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL										+	
6312	6212	SG S5-V100	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
	•					<u> </u>			•		•	
											SPACE	HEATERS
THERMOSTATS PROTECTORS			VDG RTD's BRG RTD's					NTROL				
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	NΑ
						I						
R1 (ohms/ph) R2 (ohms/ph)		0.064		hms/ph) .475		X2 (ohms/ph) 0.844		hms/ph) 6.068	VIBRATION (in/sec) 0.150		FLOAT ODE	
	0.121	0.064		.475		0.844	10	0.000		.150		DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
0				INV. HP SPEED RANGE: NONE								
T												
E				ENCODER: NONE								
s								NONE				
					NONE PPR				PPR			
								BRAKE:	NONE			
	PREPARED BY:						NONE NONE					
	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							











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: TCA0302AE231GAA009

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

Catalog No: R846 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:

Authorized Representative in the Community: J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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