PRODUCT INFORMATION PACKET



Model No: TCA5P53AE231GAA009

Catalog No: R829

TerraMAX® Cast Iron Motor, 7.50 & 5.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

132M Frame, TEFC





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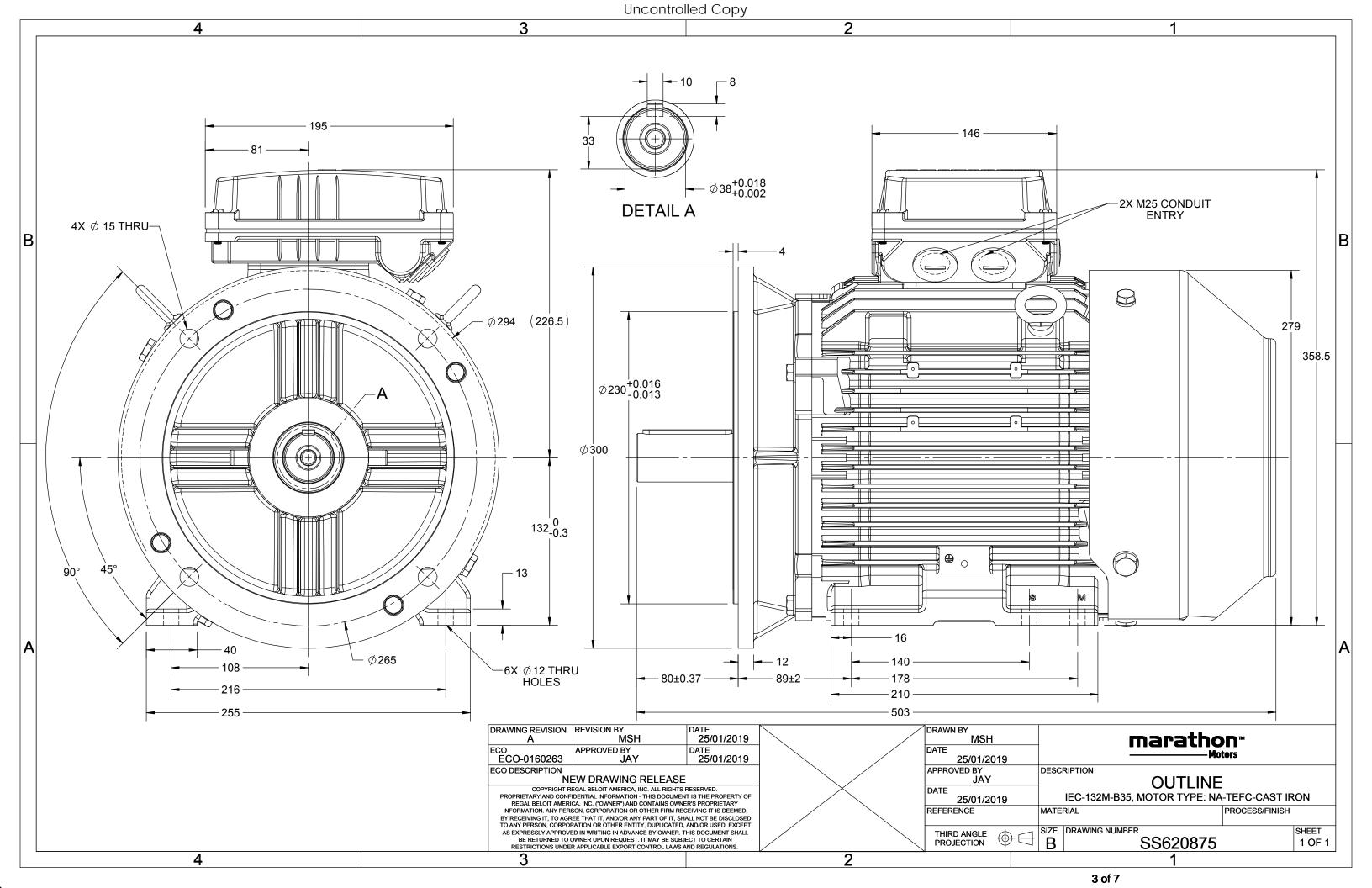
Nameplate Specifications

Phase	3	Output HP	7.50 & 5.50 Hp		
Output KW	5.5 & 4.0 kW	Voltage	230/460 & 200/400 V		
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15		
Frame	132M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	91 & 86.8 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	20.8/10.4 & 19/9.5 A	Power Factor	73		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	К		
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208		
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	6	Rotation	Reversible			
Resistance Main	1.19 Ohms	Mounting	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	38.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620875	Connection Drawing	8442000715			

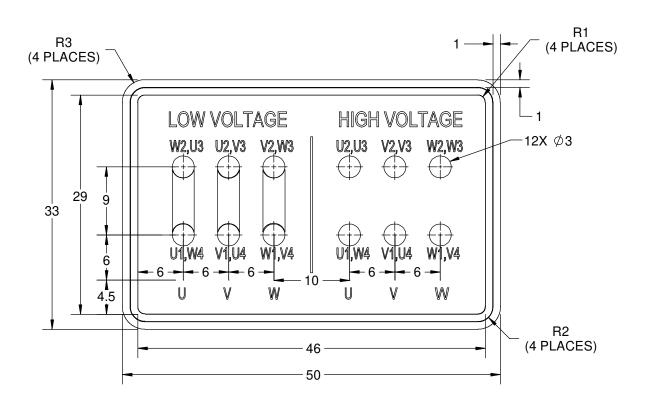
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

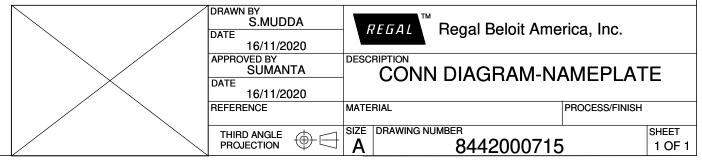
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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 #:	F	R829		
OUTLINE:		SS620875						MER PART #:				
WINDING: SPEED:		IE3L1326203	NONE	1				MOUNTING:	F3			
SPEED:				-	VDICAL	MOTOR PERFORMA	NCE DA	Τ.				
					TPICAL	WOTOK PERFORMA	NCE DA	IA	1	I		1
HP	кw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
7.5	5.50	1200	1	180		132M	Т	EFC	TCA 132MB06	K		N
PH	HZ	VOLTS	Δ.	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400		0.4&19/9.5	1	INE OR INVERTER		ONT	F	1.15	40	3300
	F.L. EFF	91.0	3/4 LD EFF	91.0		1/2 LD EFF	88.6	GTD EFF		ELECT. T	YPE	
	F.L. PF	73.0	3/4 LD PF	65.0		1/2 LD PF	53.0	89.7		SQ CAGE INV	/ RATED	
	TORQUE	LR AMPS @	460 V	L.R. TORQUE		B.D. TORG		QUE F.L. RISE		Ē (° C)		
33.5	LB-FT	76.1		86.1	LB-FT	257%	104	LB-FT	310%	80		
COLUND	PRESSURE @ 3								1			
200ND F	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR.	TS/HOUR	APROX.	MOTOR WGT
55	dBA	64 dBA	1.87			15 SEC.		2		103 KG .		
			,									1
					*** SU	PPLEMENTAL INFORMA	TION ***					
			MOUNT					RDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORGENTIALION		SEVERE DUTY		ATION	DRIP COVER SCREENS		PAINT BLUE (ENAMEL)	
FF-F	LANGE-265	STANDARD	B3	HORIZO	NIAL	NO	N	ONE	NO	NONE	BLUE (E	-NAMEL)
	EARINGS								1			
DE	ODE	GREASE	SHAI	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL										+	
6308	6208	POLYREX EM	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
						<u> </u>			'		•	
											SPACE	HEATERS
THERMOSTATS PROTECTORS			WDG RTD's BRG RTD's		THERMISTORS		CONTROL					
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	NA .
						I						
R1 (ohms/ph) R2 (ohms/ph)		0.492		X1 (ohms/ph) X2 (ohms/ph) 2.685 2.572			hms/ph) 3.606	VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.756	0.492		.080		2.572	4.	3.000		1.150		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			NONE	PPR
						BRAKE:						
	PREPARED BY:								NONE	NON	E	
	DATE:	11/27/2020						FT-LB:		NA		
E00	04 DEV :	0/07/00				ļ		VOLTAGE:		IONE		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: TCA5P53AE231GAA009

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

Catalog No : R829

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

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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