PRODUCT INFORMATION PACKET



Model No: TCA7P53AE251GAA009

Catalog No: R932

TerraMAX® Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

160M Frame, TEFC





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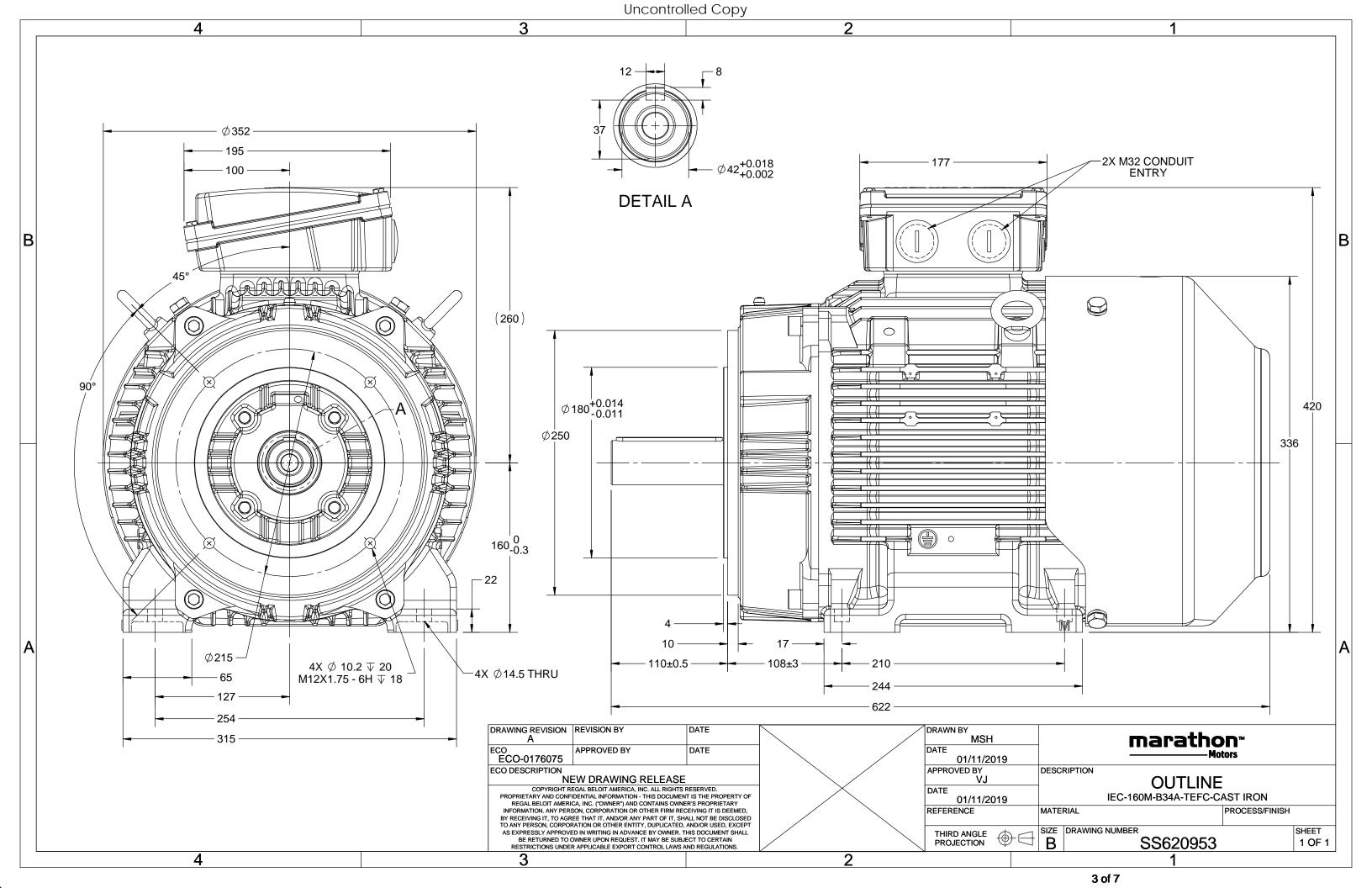
Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp		
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V		
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	91 & 88 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	26.4/13.2 & 23.4/11.7 A	Power Factor	78		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	G		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
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	42.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Connection Drawing	8442000715	Outline Drawing	SS620953

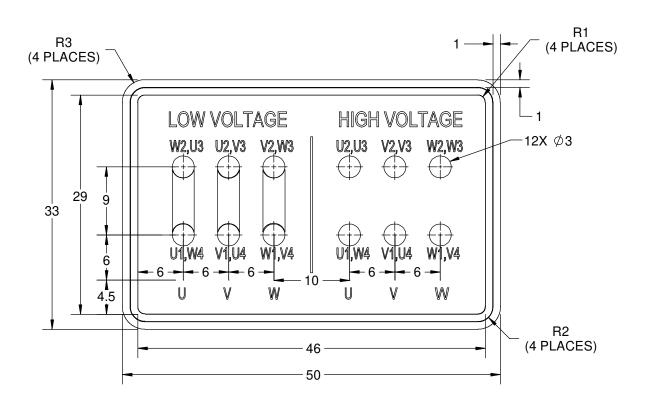
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DRAWING REVISION	REVISION BY	DATE
Α	S.MUDDA	16/11/2020
ECO	APPROVED BY	DATE
ECO-0194685	SUMANTA	16/11/2020
ECO DESCRIPTION		
	NEW DRAWING	

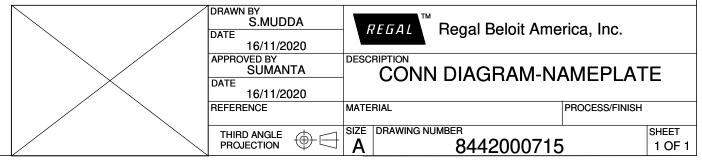
GEOMENTRIC TOLERANCE					
LINEAR DIM	>0~6	±0.1			
	>6~30	±0.2			
	>30~120	±0.3			



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	104 0000			
						WAUSAU, WI 54401-8003 PH. 715-675-3311							
									DATA VOLTS:	460			
					CEF	RTIFICATION DATA S	HEET						
CUSTOMER: ORDER #:							CUSTOMER P.O. #: REFERENCE MODEL #:		:: TCA7P53AE251GAA009			_	
CONN. DIA OUTLINE: WINDING: SPEED:		8442000677 SS620953 IE3L1606201	NONE	1			CUSTO	CAT #: MER PART #: MOUNTING:		R932			
				Т	YPICAL	MOTOR PERFORMA	NCE D	ATA				1	
HP	KW	SYNC RPM	FL	RPM		FRAME	ENCLOSURE		TYPE	KVA C	ODE	DE DESIGN	
10	7.5	1200	1	180		160M	=	TEFC	TCA 160MA06	G		N	
PH	HZ	VOLTS		MPS		START TYPE		DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400		2&23.4/11.7		LINE OR INVERTER		CONT	F	1.15	40	3300	
	F.L. EFF F.L. PF		3/4 LD EFF 3/4 LD PF	91.0 72.0		1/2 LD EFF 1/2 LD PF	90.0 61.0	GTD EFF 89.7		SQ CAGE IN			
	TORQUE	LR AMPS @	460 V	460 V L.R. TORQUE		B.D. TORQUE			F.L. RISE (° C)				
44.5	LB-FT	77.8		94.1	LB-FT	211%	114	LB-FT	256%	80			
	PRESSURE @ 3 FT.	SOUND POWER		OR WK ²		MAX. LOAD WK ²		STALL TIME	STAR	TS/HOUR	APROX.	MOTOR WG	
56	dBA	65 dBA	3.2	LB-FT ²	3.2	LB-FT ²	15	SEC.		2	146	KG.	
			MOUNT		*** SU	PPLEMENTAL INFORMA		ARDOUS			T		
	ACKET TYPE	ODE BRACKET TYPE	TYPE B3	MOTOR ORIE			LOCATION		DRIP COVER	SCREENS		PAINT BLUE (ENAMEL)	
	LANGE-215	FT-FLANGE-215	Вз	HORIZO	NIAL	NO	r	NONE	NO	NONE	BLUE	(ENAMEL)	
DE	EARINGS ODE	GREASE	SHAI	T TYPE		SPECIAL DE	SPE	CIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL		
6309	BALL 6209	POLYREX EM	STANE	DARD IEC	NONE		1	NONE	1045 HOT ROLLED (C-204)		CAST IRON		
THERMOSTATS PROTECTORS			RTD's			THERMISTORS		CONTROL		SPACE HEATERS			
	NONE	NOT	l N	ONE		NONE		NONE	F.	ALSE		NA	
R1 (ohms/ph) 0.709		R2 (ohms/ph) 0.369		hms/ph) .872	X2 (ohms/ph) 2.553			(ohms/ph) VIBRATION (in/sec) 41.867 0.150		FLOAT ODE			
	000	0.000	· '	.0, 2		2.000	4		1				
N O T						INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE							
E S	E S						ENCODER: NONE NONE NONE NONE NONE NONE NONE NONE NONE						
	DDEDADED SY							BRAKE:					
PREPARED BY:													
FORM: 35	31 REV_4	2/27/06					UL:		,CONST UL REC			112.	











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: TCA7P53AE251GAA009

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

Catalog No : R932
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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