PRODUCT INFORMATION PACKET



Model No: TCA7P53AE271GAA009

Catalog No: R632

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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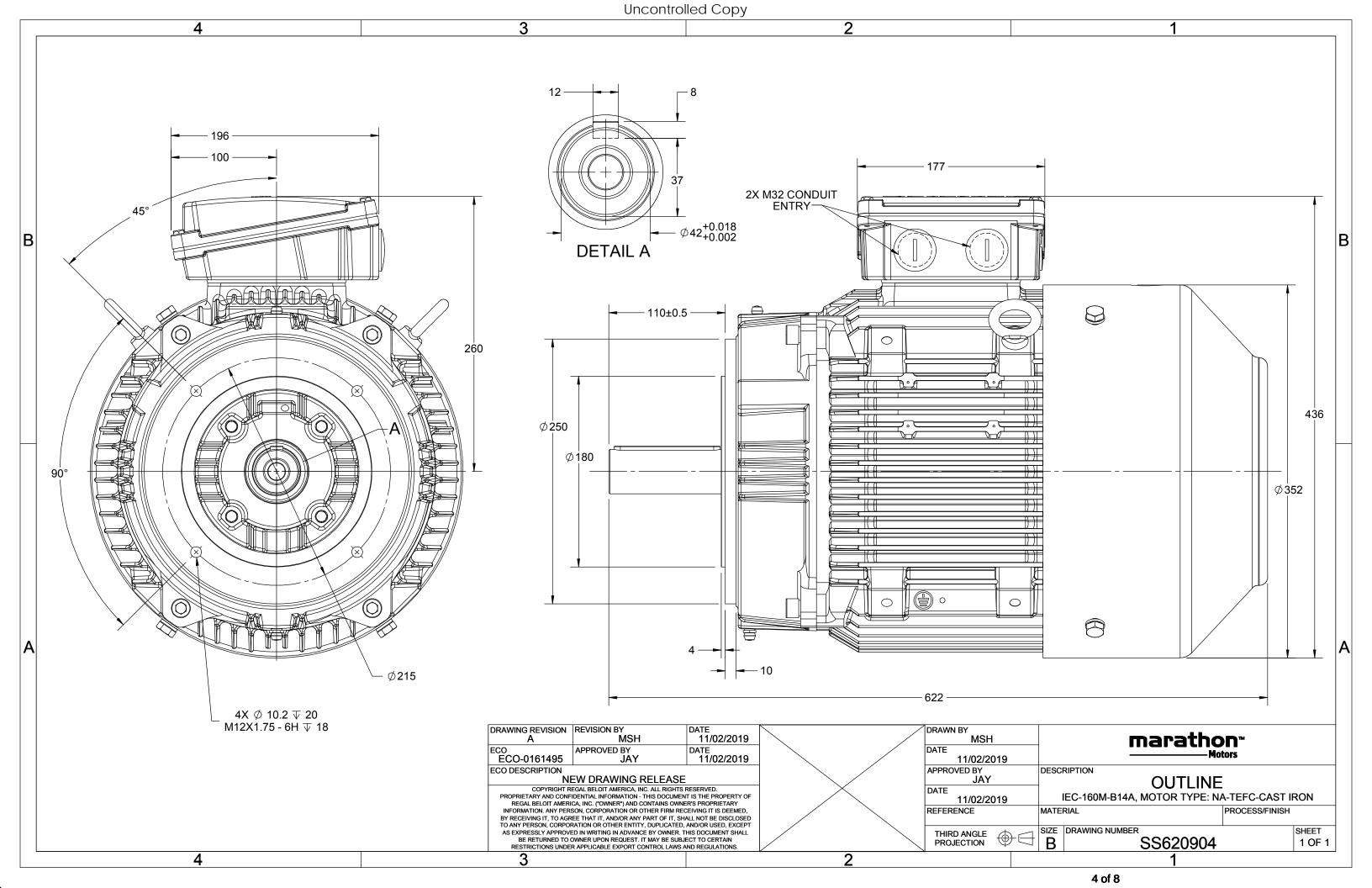
Nameplate Specifications

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	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	24.49 in
Frame Length	10.00 in	Shaft Diameter	1.654 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	SS620904	Connection Drawing	8442000715

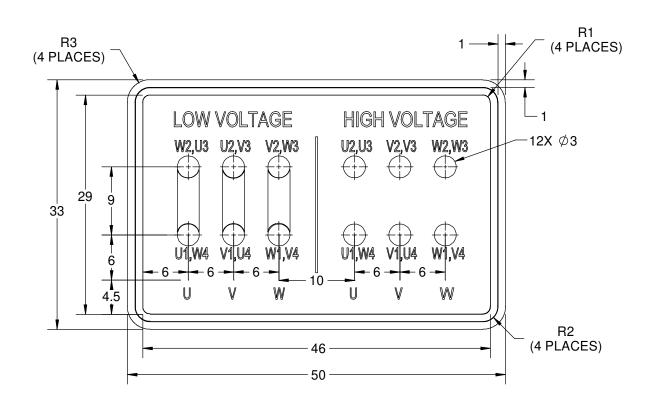
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

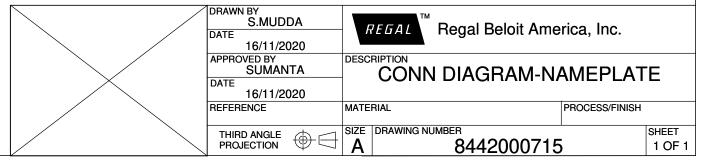
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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[™]



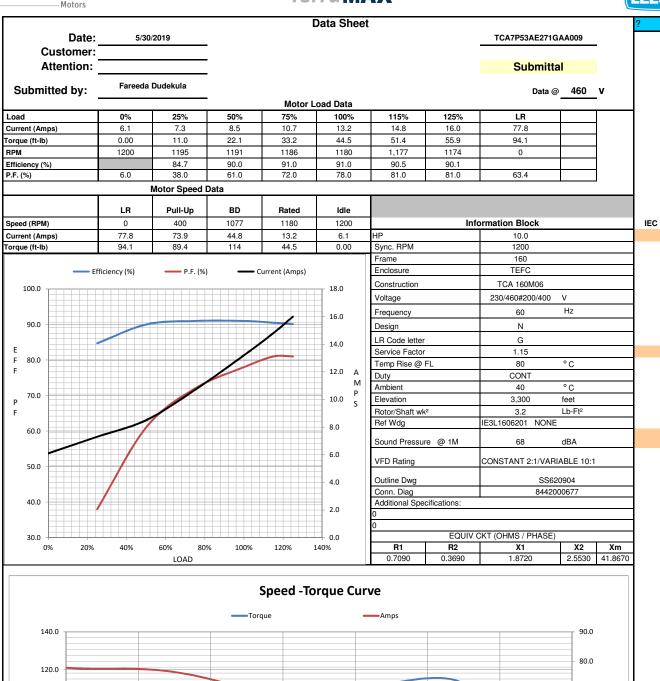
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-331	1				
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA S	HEET					
CUSTOME	R:							OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:		TCA7P53AE271G	AA009		
CONN. DIA	AGRAM:	8442000677						CAT #:	F	R632		
OUTLINE:		SS620904					CUSTOMER PART #:					
WINDING:		IE3L1606201	NONE	1				MOUNTING:	F3			
SPEED:												
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TΑ				
		0.410 PPM		DD11		50.44F	ENGL COURT		T/DE			DESIGN
HP	KW	SYNC RPM	FL	RPM		FRAME	ENCLOSURE		TYPE	KVACC	KVA CODE	
10	7.5	1200	1	180		160M	Т	EFC	TCA 160MA06	G		N
L			-									
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	26.4/13.2	2&23.4/11.7	l l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF		0/4 L D EEE	04.0		4015 555	00.0	070 555	ı		VDE	
			3/4 LD EFF	91.0		1/2 LD EFF				ELECT. T		
	F.L. PF	78.0	3/4 LD PF	72.0		1/2 LD PF	61.0	89.7		SQ CAGE INV	RATED	
	. TORQUE	LR AMPS @	460.1/			TORQUE		B.D. TORG	0115		(° C)	
44.5		77.8	460 V	94.1	LB-FT	211%	114	LB-FT	256% F.L. RISE 256% 80		= (· C)	
44.5	LB-F1	11.0		94.1	LD-F I	21170	114	LD-FI	230%	60		
SOUND F	PRESSURE @ 3											
	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
56	dBA	65 dBA	3.2	LB-FT ²	3.2	LB-FT ²	15	SEC.		2	145	KG.
					*** SU	PPLEMENTAL INFORMA						
			MOUNT TYPE		ORIENTATION SEVERE DUTY LOCATIO			DRIP COVER SCREENS		DAINT		
	LANGE-215	ODE BRACKET TYPE STANDARD	ROUND	MOTOR ORIENTATION SEVERE DUTY HORIZONTAL NO		LOCATION NONE		NO NO	NONE	PAINT BLUE (ENAMEL)		
FI-F	LANGE-215	STANDARD	ROUND	HURIZU	NIAL	NO	IN	ONE	NO	NONE	BLUE (E	ENAMEL)
	EARINGS								1		1	
DE .	ODE	GREASE	SHAF	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL				+							
6309	6209	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT R	OLLED (C-204)	CAST	RON
											SPACE	HEATERS
THERMOSTATS PROTECTORS		WDG	WDG RTD's BRG RTD's		THERMISTORS		CONTROL		SPACE HEATERS			
	NONE	NOT	N	NONE NONE		NONE	NONE		FALSE		NA	
R1 (ohms/ph) R2 (ohms/ph)			X1 (ohms/ph) X2 (ohms/ph)				hms/ph)	VIBRATION (in/sec)		FLOAT		
	0.709	0.369	1	.872		2.553	4	1.867	0	.150	0	DE
										CONSTANT 2:10/AE	DIADI E 10:1	
N O					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
						INV. H	SPEED RANGE:	INOINE				
T						ENCODER: NONE						
E									INOINE			
8				NONE NONE PPR				DDD				
-								BRAKE:	NONE		NONE	FFR
	PREPARED BY:								NONE	NON	_	
	DATE:	11/16/2020						FT-LB:		NA NA	L	
	DATE:	11/10/2020						VOLTAGE:		ONE		HZ:
FORM: 35	31 REV 4	2/27/06					111 -		CONST UL REC	OITE		nZ:
. Ortivi. 33	V . IVE V_4	2,21100					UL:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

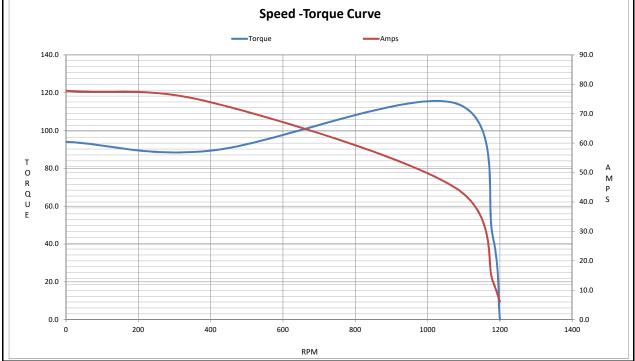














EC Declaration of Conformity

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: TCA7P53AE271GAA009

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

Catalog No : R632
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:

Michael A. Logsdon

Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer

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