## PRODUCT INFORMATION PACKET



Model No: TCA0151AE271GAA009

Catalog No: R636

Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 160M Frame,

**TEFC** 





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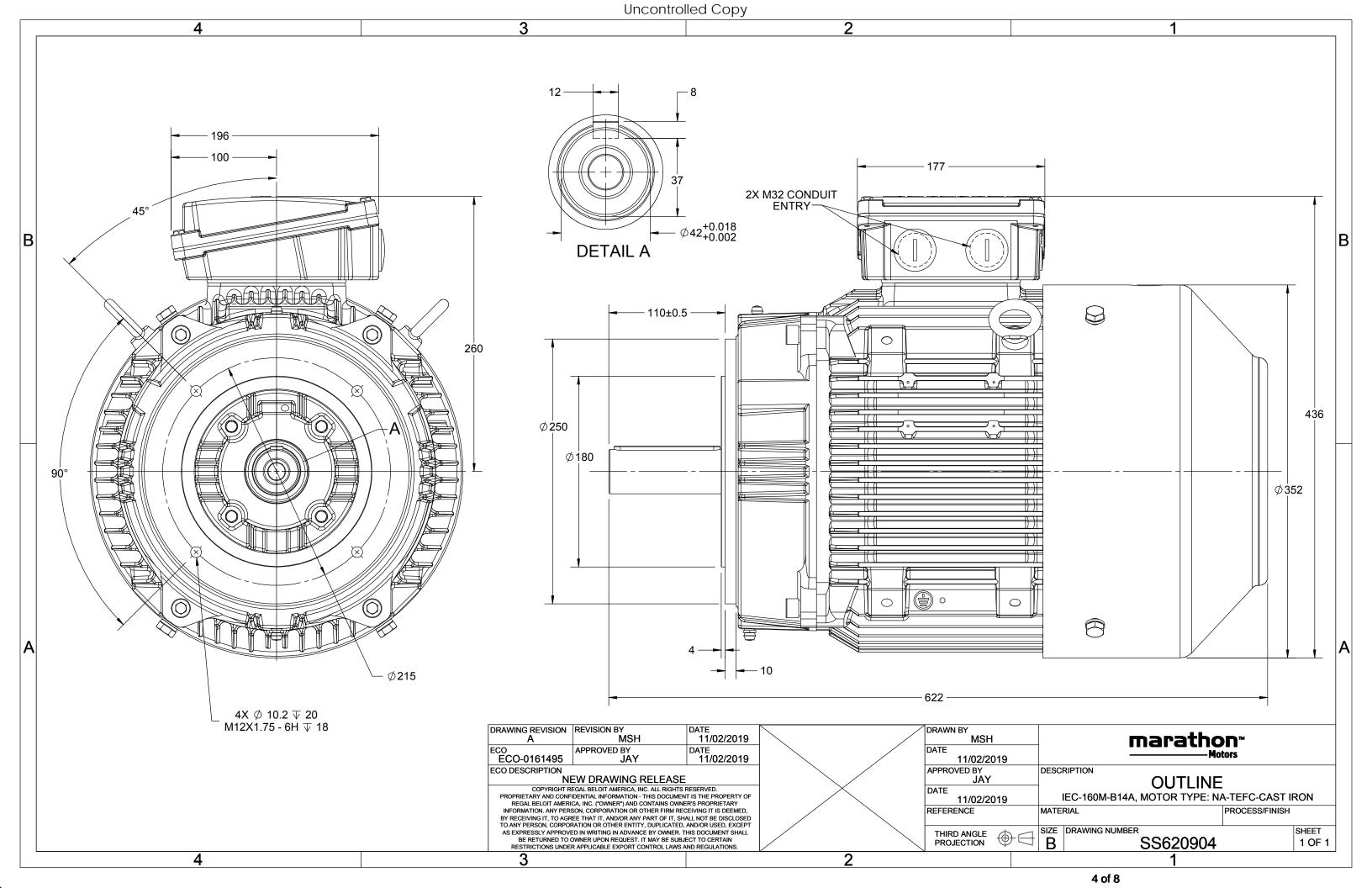
## Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp			
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V			
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15			
Frame	160M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91 & 91.2 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	45.5/22.8 & 39/19.5 A	Power Factor	91			
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	2	Rotation	Reversible	
Resistance Main	.73 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	

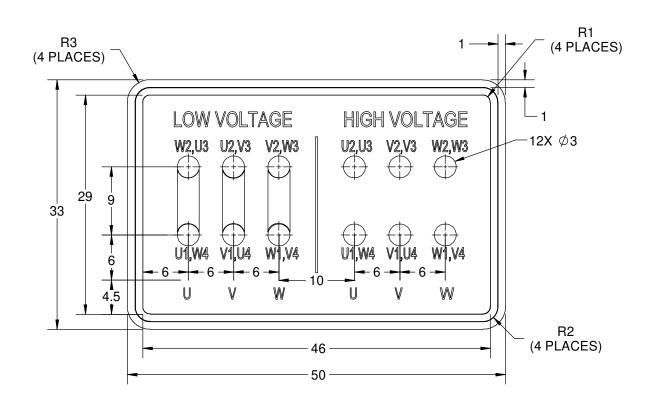
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

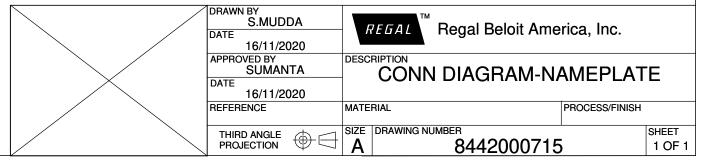
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



### 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**<sup>™</sup>



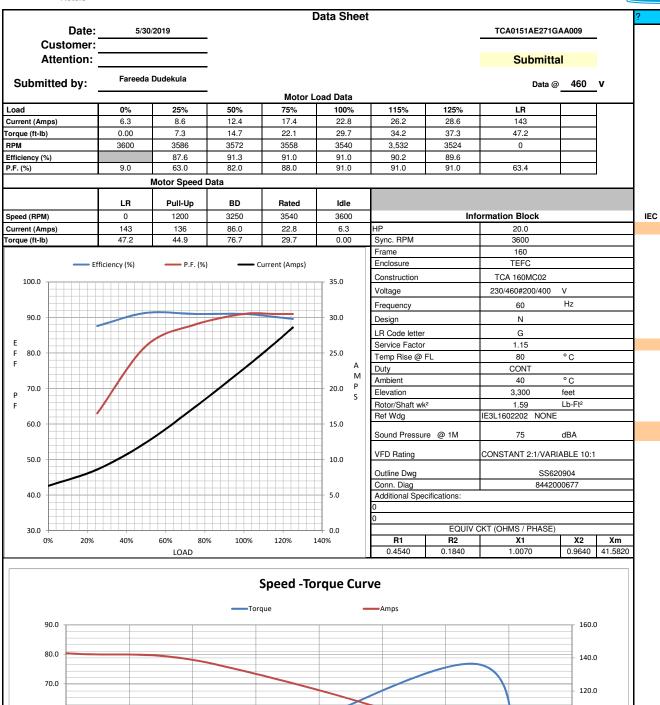
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-331					
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
					OLI	VIII ICATION DATA SI						
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA0151AE271G	AA009		_
CONN. DIA	AGRAM:	8442000677						CAT #:	F	R636		
OUTLINE:		SS620904					CUSTO	MER PART #:				
WINDING:		IE3L1602202	NONE	1				MOUNTING:	E3			•
		12321002202	NONE	į.				MODIVING.	13			
SPEED:		_										
				T'	YPICAL	MOTOR PERFORMA	NCE DA	ΛTA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	ENCLOSURE TYPE		KVA CO	DDE	DESIGN
20	14.9	3600	3	3540		160M	T	EFC	TCA 160MC02	G		N
PH	HZ	VOLTS	Α	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	45 5/22	.8&39/19.5		LINE OR INVERTER		ONT	F	1.15	40	3300
_ <u> </u>	00/00	200/100//200/100	10.0/22	.0000710.0		THE OIL HAVE THE T				1.10		0000
		Laval							1			
	F.L. EFF		3/4 LD EFF	91.0		1/2 LD EFF	91.3	GTD EFF		ELECT. T		
	F.L. PF	91.0	3/4 LD PF	88.0		1/2 LD PF	82.0	89.7		SQ CAGE INV	RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
	LB-FT	143		47.2	LB-FT	159%	76.7	LB-FT	258%	80	1 -/	
25.1	LD-I I	143		41.2	LD-1 1	15970	10.1	LD-1 1	25070	00		
COLIND I	PRESSURE @ 3								1			
SOUND	FT.	SOUND POWER	BOT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	CAEE	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT
				LB-FT <sup>2</sup>	1.59	LB-FT <sup>2</sup>			STAR			
75	dBA	84 <b>dBA</b>	1.59	LB-F1-	1.59	LB-F1	7	SEC.		2	148	KG.
			•									
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					ARDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEI		SEVERE DUTY		CATION	DRIP COVER	SCREENS		INT
FT-F	LANGE-215	STANDARD	ROUND	HORIZON	ITAL	NO	N	IONE	NO NONE BLUE (ENA		ENAMEL)	
		•										·
BI	EARINGS											
DE .	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPECIAL ODE S		SHAFT MATERIAL		FRAME MATERIAL	
BALL		-										
	BALL	POLYREX EM	// STANDARD IEC NONE		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON		
6309	6209									. , ,		
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WDG	G RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT		ONE		NONE		IONE		ALSE		NA .
				0.112		110112				1202		
B4	(ohms/ph)	R2 (ohms/ph)	V1 (a	hmo/nh)		V2 (ahma/nh)	Vm /	ohms/ph)	VIDDAT	ON (in/occ)		OAT
KI			X1 (ohms/ph) 1.007					VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.454	0.184	1	.007		0.964	4	1.582	L C	.150	0	DE
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0						SPEED RANGE:						
T									OI LLD IVAIOL.			
									NONE			
E								ENCODER:	NUNE			
s								NONE				
*								NONE			NONE	PPR
								BRAKE:	NONE			
l	PREPARED BY:						NONE NONE					
1											-	
1	DATE:	11/10/2020						FT-LB:		NA		
1						<u> </u>		VOLTAGE:		ONE		HZ:
FORM: 35	ORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC						

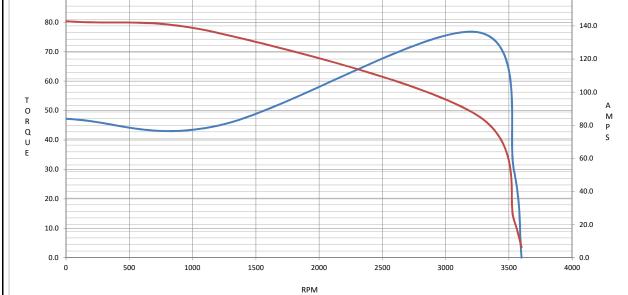














# **EC Declaration of Conformity**

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: TCA0151AE271GAA009

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

Catalog No : R636

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

(€ 22