PRODUCT INFORMATION PACKET



Model No: TCA0152AE251GAA009

Catalog No: R937

TerraMAX® Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

160L Frame, TEFC





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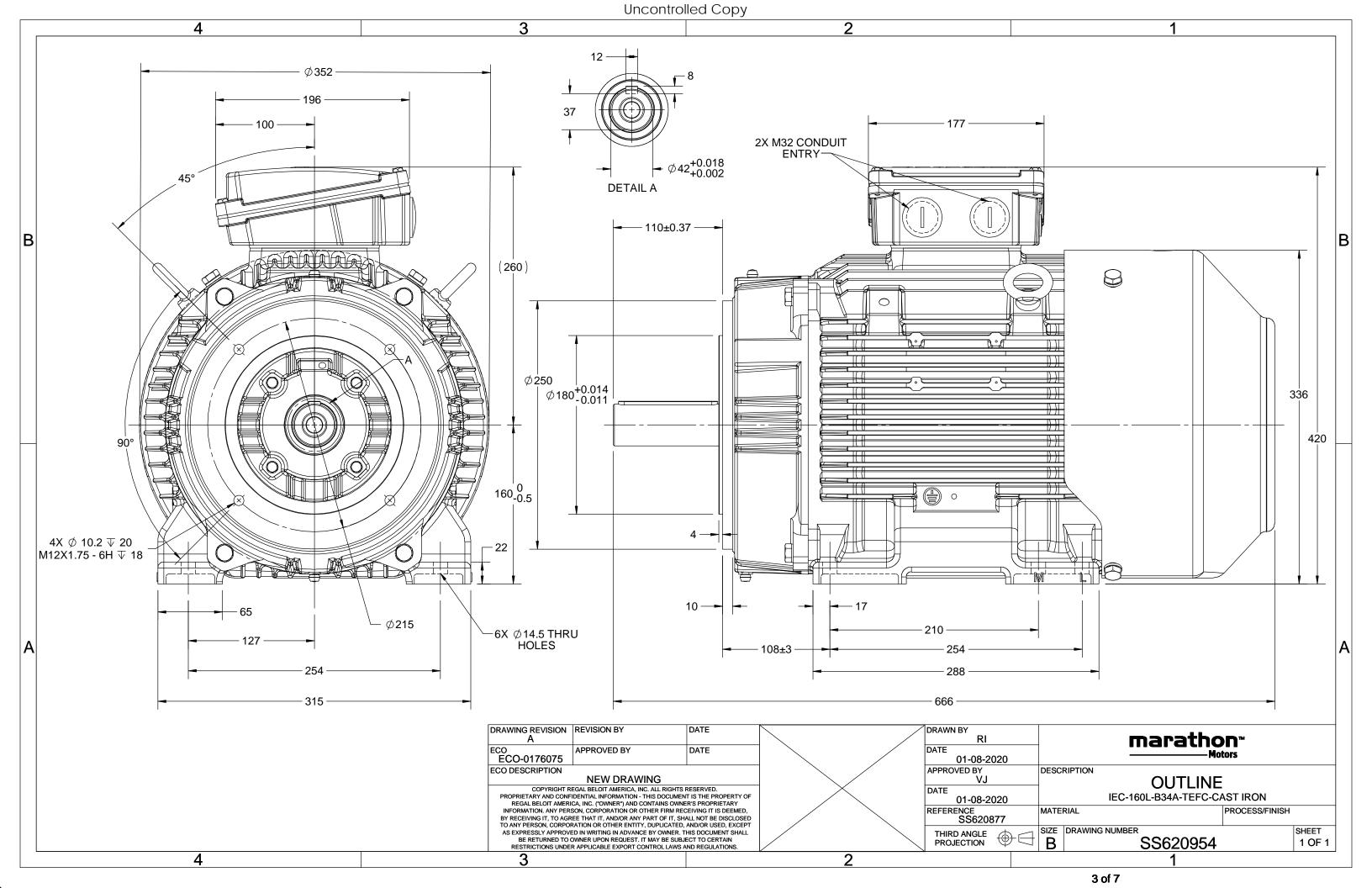
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp		
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V		
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15		
Frame	160L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	93 & 91.4 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	50/25.1 & 45.5/22.8 A	Power Factor	81		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	J		
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	4	Rotation	Reversible			
Resistance Main	.49 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			
Outline Drawing	SS620954	Connection Drawing	8442000715			

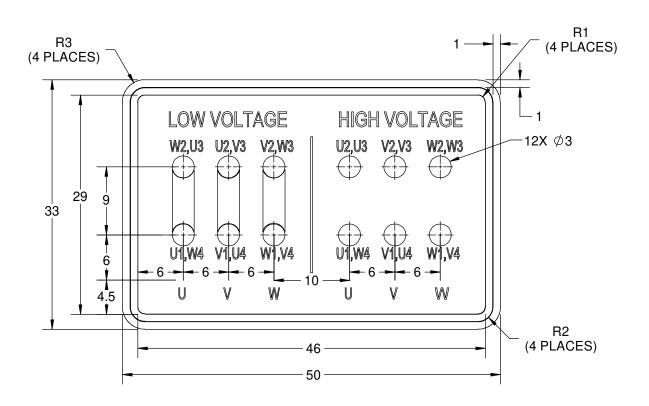
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

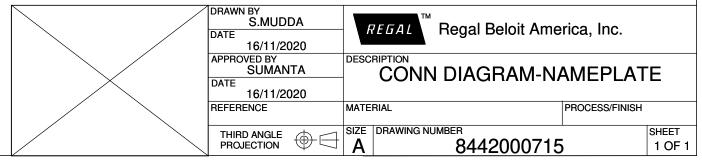
GEOMENTRIC TOLERANCE						
LINEAR DIM	>0~6	±0.1				
	>6~30	±0.2				
	>30~120	±0.3				



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			
					WAUSAU, WI 54401-8003 PH. 715-675-3311							
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
					OLI	THE ICATION DATA SI	ILL.					
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA0152AE251G	AA009		
CONN. DIA	AGRAM:	8442000677					CAT #:		#: R937			
OUTLINE:		SS620954					CUSTOMER PART #:					
WINDING:		IE3L1604202	2 NONE	1				MOUNTING:				-
SPEED:		12021004202	L NONE					moontinto.	10			
SPEED.		_		_	/BIG 41							
				T	YPICAL	MOTOR PERFORMA	NCE DA	ITA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	TYPE KVA CO		DDE	DESIGN
20	15.00	1800	1	1775		160L	Т	EFC	TCA 160LA04	J		N
PH	HZ	VOLTS	_ A	MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	50/25.1	&45.5/22.8		LINE OR INVERTER	C	ONT	F	1.15	40	3300
		•				•					•	•
	F.L. EFF	93.0	3/4 LD EFF	93.0		1/2 LD EFF	92.2	GTD EFF		ELECT. T	YPF	
	F.L. PF		3/4 LD PF			1/2 LD PF	62.0	92.0		SQ CAGE IN\		
	F.L. PF	81.0	3/4 LD PF	74.0		1/2 LD PF	02.0	92.0		SQ CAGE IN	RATED	
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
59.2	LB-FT	179		145	LB-FT	245%	189	LB-FT	319%	80		
		•		•								•
SOUND	PRESSURE @ 3											
	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
68	dBA	77 dBA	2.86	LB-FT ²	2.86	LB-FT ²	10	SEC.		2	166	KG.
- 00	ubA	// UDA	. 2.00		2.00		10	OLO.			100	ito.
					*** 011	DDI EMENTAL INFORMA	TION ***					
			MOUNT		^^^ SU	PPLEMENTAL INFORMA						
			TYPE			SEVERE DUTY		ARDOUS	DRIP COVER	SCREENS		
	ACKET TYPE	ODE BRACKET TYPE		MOTOR ORIEI				CATION			PAINT	
FT-F	LANGE-215	STANDARD	B3	HORIZON	ITAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)
BI	EARINGS	GREASE	ена	ET TYPE		SPECIAL DE	ene <i>c</i>	IAL ODE	SHAFT	MATERIAL	ED AME A	MATERIAL
DE	ODE	GREASE	SHAFT TYPE		SPECIAL DE		SPECIAL ODE	SHAFT	WAIERIAL	FRANE	WATERIAL	
BALL	BALL								1			
6309	6209	POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
0303	0209	l										
		1	1						1		1	
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WDG	G RTD's		BRG RTD's	THER	MISTORS		NTROL		
	NONE	NOT	N	IONE		NONE	N	IONE	F.	ALSE	1	NA
R1	(ohms/ph)	R2 (ohms/ph)	X1 (c	hms/ph)		X2 (ohms/ph)	Xm (c	ohms/ph)	VIBRAT	ION (in/sec)	FL	OAT
0.298		0.156		0.752 0.979		2	1.940	0.150		ODE		
			-								-	
*												
										0010741704444	314 B) E 40 4	
N							CONSTANT 2:1/VAF	RIABLE 10:1				
	0				INV. HP SPEED RANGE: NONE							
Т												
E								ENCODER:	NONE			
S *								NONE				
								NONE			NONE	PPR
l								BRAKE:	NONE			
l	PREPARED BY:							1	NONE	NON	E	
l	DATE:							FT-LB:		NA		
1								VOLTAGE:		IONE		HZ:
EODM: 25	21 DEV 4	2/27/06				ŀ				OIAL		nz.
FURIVI: 35	DRM: 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: TCA0152AE251GAA009

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

Catalog No : R937
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