PRODUCT INFORMATION PACKET



Model No: TCA0152AE221GAA009

Catalog No: R237

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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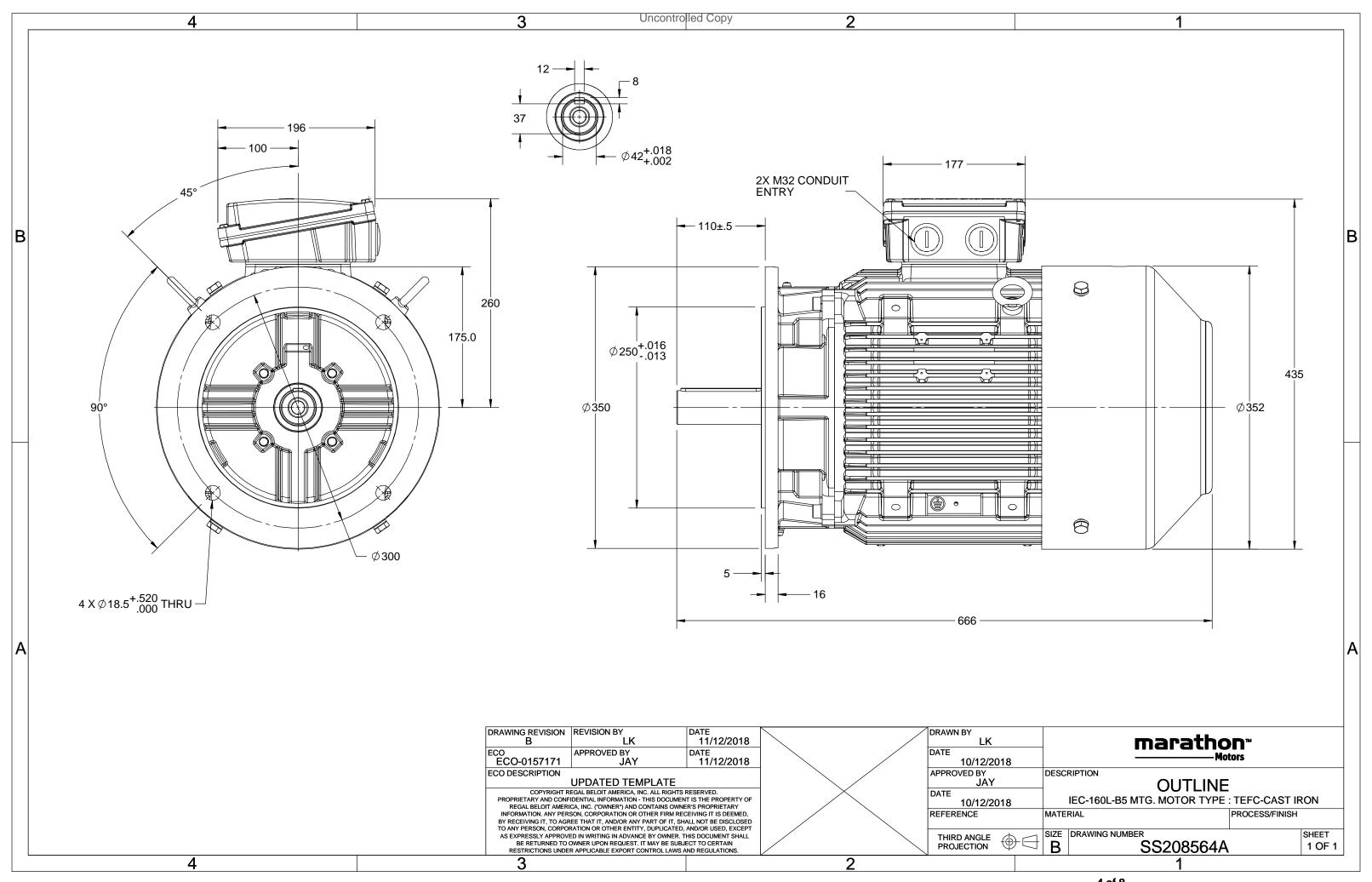
Nameplate Specifications

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	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	26.22 in		
Frame Length	11.73 in	Shaft Diameter	1.654 in		
Shaft Extension	4.33 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Connection Drawing	8442000715	Outline Drawing	SS208564A		

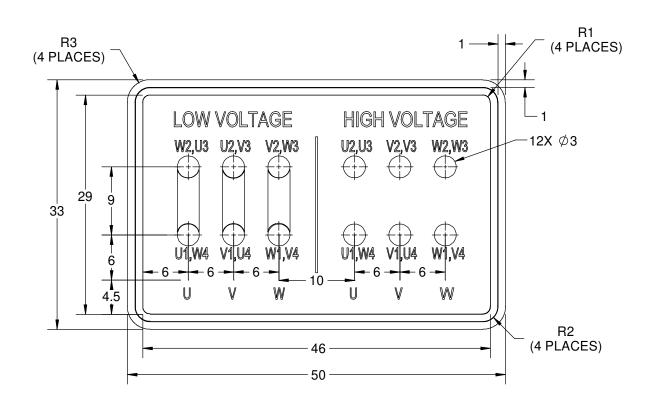
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

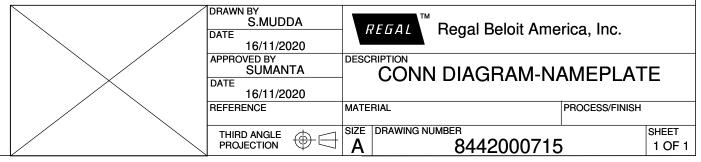
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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[™]



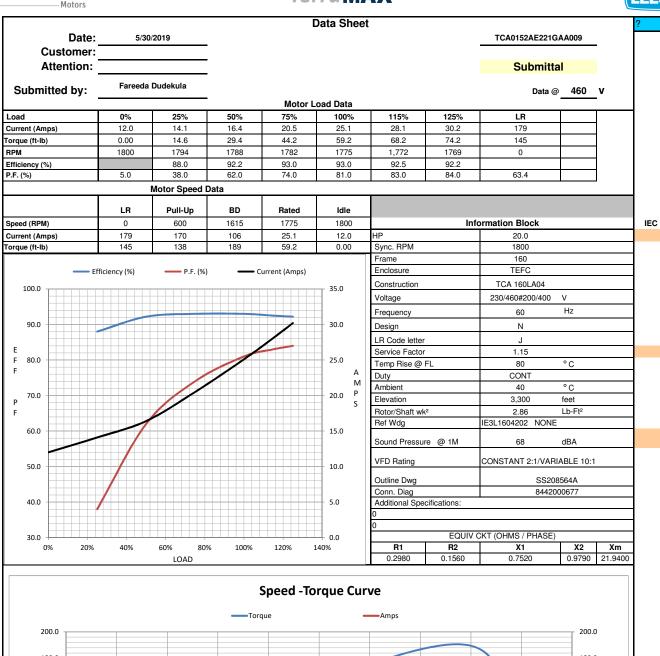
									P.O. BOX 8003			
						WAUSAU, WI 54401-8003 PH. 715-675-3311						
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
					OLI	VIII ICATION DATA SI						
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA0152AE221G	AA009		
CONN. DIA	AGRAM:	8442000677						CAT #:	F	R237		
OUTLINE:		SS208564A					CUSTO	MER PART #:				
WINDING:		IE3L1604202	NONE	1				MOUNTING:	E3			•
		IL3L1004202	NONE					WOONTING.	13			
SPEED:				_								
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CO	DDE	DESIGN
20	14.9	1800	1	1775		160L	T	EFC	TCA 160LA04	J		N
PH	HZ	VOLTS	Α	MPS		START TYPE		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		ONT	F	1.15	40	3300
_ <u> </u>	00/00	200/100//200/100	00/20:1	Q 10.0/22.0		THE OIL HAVE THE T		0.11		1.10		0000
		I I							1			
	F.L. EFF		3/4 LD EFF	93.0		1/2 LD EFF	92.2	GTD EFF		ELECT. T		
	F.L. PF	81.0	3/4 LD PF	74.0		1/2 LD PF	62.0	92.0		SQ CAGE INV	RATED	
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
	LB-FT	179		145	LB-FT	245%	189	LB-FT	319%	80	1 -/	
39.2	LD-1 1	119		143	LD-1 1	24370	103	LD-I I	31370	00		
COLIND I	PRESSURE @ 3	1							1			
SOUND	FT.	SOUND POWER	BOT.	OR WK²		MAX. LOAD WK ²	CAEE	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT
				LB-FT ²		LB-FT ²			STAR			
68	dBA	77 dBA	2.86	LB-F1-	2.86	LB-F1	10	SEC.		2	166	KG.
			`									
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					RDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE		SEVERE DUTY		ATION	DRIP COVER	SCREENS		INT
FF-F	LANGE-300	STANDARD	ROUND	HORIZON	NTAL	NO	N	ONE	NO	NONE BLUE (ENAMEL)		ENAMEL)
			•									·
BI	EARINGS											
DE .	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
BALL	BALL											
		POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT F	OLLED (C-204)	CAST	IRON
6309	6209											
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WDG	3 RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SFACE	HEATERS
	NONE	NOT		ONE		NONE		ONE		ALSE	N	۱A
		-										
D1	(ohms/ph)	R2 (ohms/ph)	Y1 (0	hms/ph)		X2 (ohms/ph)	Ym /	hms/ph)	VIRDAT	ION (in/sec)	E14	OAT
- 1	0.298	0.156		.752		0.979		1.940		.150		DE
	0.296	0.156		./52		0.979		1.940		. 150	0	DE
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0						INV H	SPEED RANGE:	NONE				
T									0. 225			
									NONE			
E								ENCODER:	NONE			
S								NONE				
*								NONE			NONE	PPR
								BRAKE:	NONE			
l	PREPARED BY:						NONE NONE					
1	DATE:							FT-LB:		NA NA	_	
1	DATE:	11/10/2020										
l						ļ.		VOLTAGE:		ONE		HZ:
FORM: 35	ORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC						

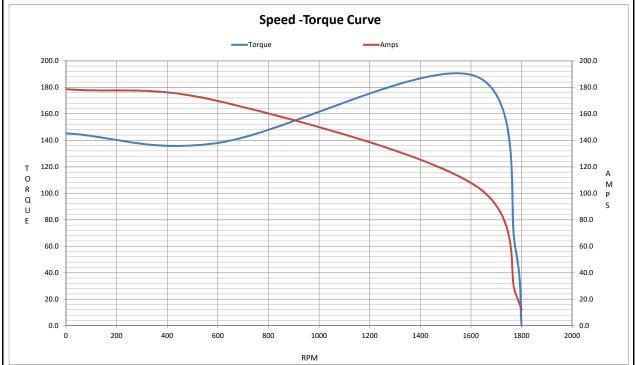














EC Declaration of Conformity

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: TCA0152AE221GAA009

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

Catalog No: R237
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. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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