PRODUCT INFORMATION PACKET



Model No: TCA7P51AE221GAA009

Catalog No: R230

Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 132S Frame,

TEFC





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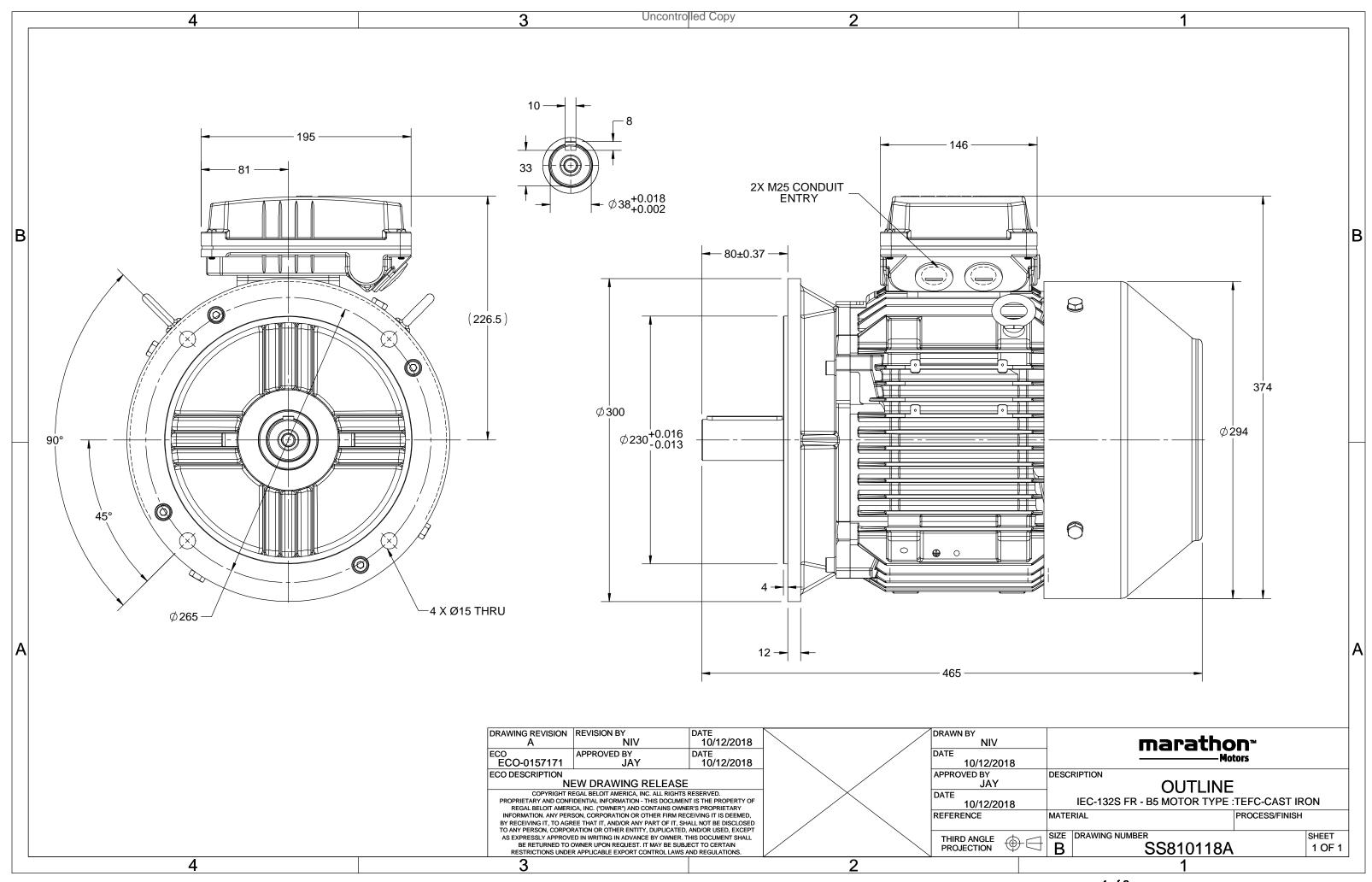
Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp		
Output KW	7.5 & 5.5 kW	Voltage	230/460 & 200/400 V		
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15		
Frame	132S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	90.2 & 89.2 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	23.8/11.9 & 21/10.5 A	Power Factor	88		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	J		
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208		
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	1.24 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	18.31 in		
Frame Length	7.95 in	Shaft Diameter	1.496 in		
Shaft Extension	2.36 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS810118A	Connection Drawing	8442000715		

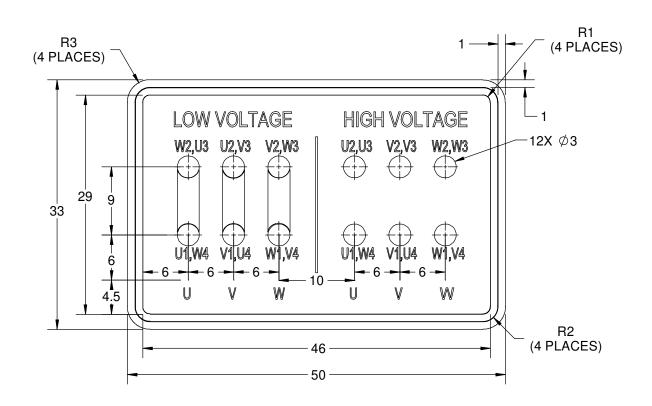
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

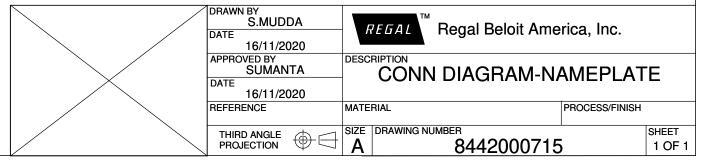
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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[™]



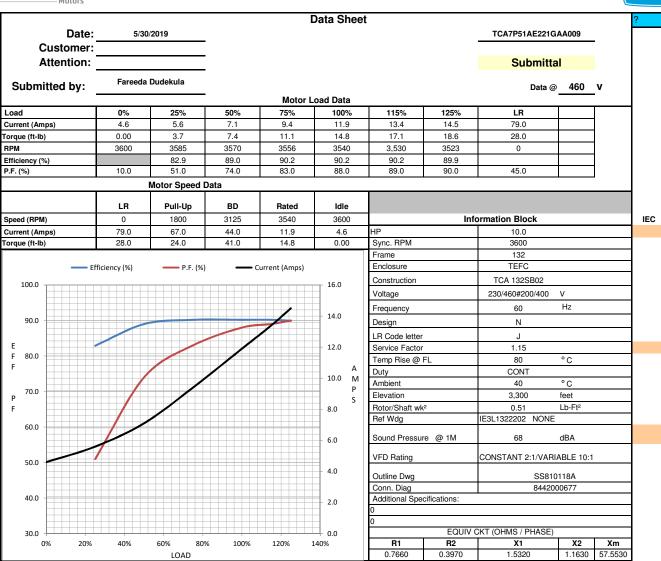
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-331					
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA S	HEET					
					CLI	THE ICATION DATA S						
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA7P51AE221G	AA009		
CONN. DIA	AGRAM:	8442000677		=				CAT #:	F	R230		
OUTLINE:		SS810118A					CUSTO	MER PART #:				
WINDING:		IE3L132220	2 NONE	1				MOUNTING:	E3			•
		ILJL 132220	Z NONE	'				WOONTING.	13			
SPEED:				_								
				T	YPICAL	. MOTOR PERFORMA	NCE DA	TA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	SURE TYPE		DDE	DESIGN
10	7.5	3600		3540		132S	Т	EFC	TCA 132SB02	J		N
PH	HZ	VOLTS	Δ.	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	23 8/11	.9&21/10.5		LINE OR INVERTER		ONT	F	1.15	40	3300
—ٽ —	30,00	200,100,1200,400	20.0/11						· ·			
		Land							1			
	F.L. EFF		3/4 LD EFF			1/2 LD EFF	89.0	GTD EFF		ELECT. T		
	F.L. PF	88.0	3/4 LD PF	83.0		1/2 LD PF	74.0	88.7		SQ CAGE INV	RATED	
F.L	TORQUE	LR AMPS (70 460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
	LB-FT	79.0		28.0	LB-FT	189%	41.0	LB-FT	277%	80	1	
14.0	LD-1 1	19.0		20.0	LD-I I	16970	41.0	LD-I I	21170	00		
COLIND I	PRESSURE @ 3	1	1	1					1			
SOUND	FT.	SOUND POWER		OR WK²		MAX. LOAD WK ²	CAEE	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT
				LB-FT ²	0.51	LB-FT ²			STAR			
72	dBA	81 dBA	0.51	LB-F1-	0.51	LB-F1	10	SEC.		2	88	KG.
			•									
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					RDOUS				
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE	NTATION	SEVERE DUTY	LOC	ATION	DRIP COVER	SCREENS	P.A	INT
FF-F	LANGE-265	STANDARD	ROUND	HORIZON	NTAL	NO	N	ONE	NO	NONE BLUE (ENAMEL)		ENAMEL)
				•		-					,	,
	EARINGS	1										
DE D.	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
BALL	BALL	POLYREX EM	STAN	DARD IEC		NONE	N	ONE	1045 HOT F	OLLED (C-204)	CAST	RON
6308	6208					-				- (/	-	-
											00405	
THE	RMOSTATS	PROTECTORS	WD	3 RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT		IONE		NONE		ONE		ALSE		NA .
	HONE	1101		IONE		NONE		ONE		TLOL		W/ C
D4	(= b = (= b \	DO (about fab)	V4 /-	hara (a.b.)		V2 (-b(-b)	V /-	hara fale)	VIDDAT	ION (in/sec)		OAT
KI	(ohms/ph)	R2 (ohms/ph)		hms/ph)		X2 (ohms/ph)		hms/ph)				
	0.766	0.397	1	.532		1.163	5	7.553		.150	0	DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
0						INV. HP SPEED RANGE: NONE						
T									OI LLD IVAIOL.			
E								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
1								BRAKE:	NONE			
1	DDEDADED SY										-	
1	PREPARED BY:								NONE	NON	L	
1	DATE:	11/10/2020						FT-LB:		NA		
1						L		VOLTAGE:		ONE		HZ:
FORM: 35	FORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC						

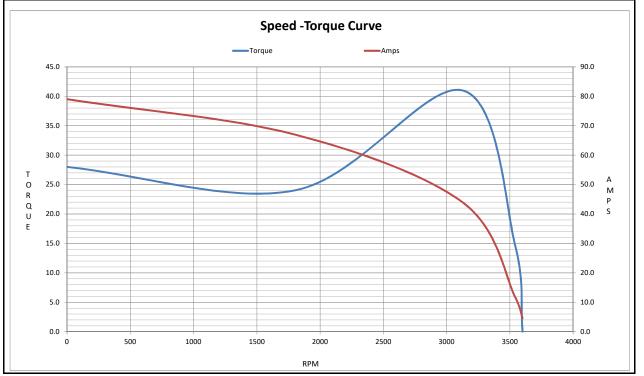














EC Declaration of Conformity

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: TCA7P51AE221GAA009

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

Catalog No : R230

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. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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