PRODUCT INFORMATION PACKET



Model No: TCA5P51AE221GAA009

Catalog No: R227

Cast Iron Motor, 7.50 & 5.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

132S Frame, TEFC





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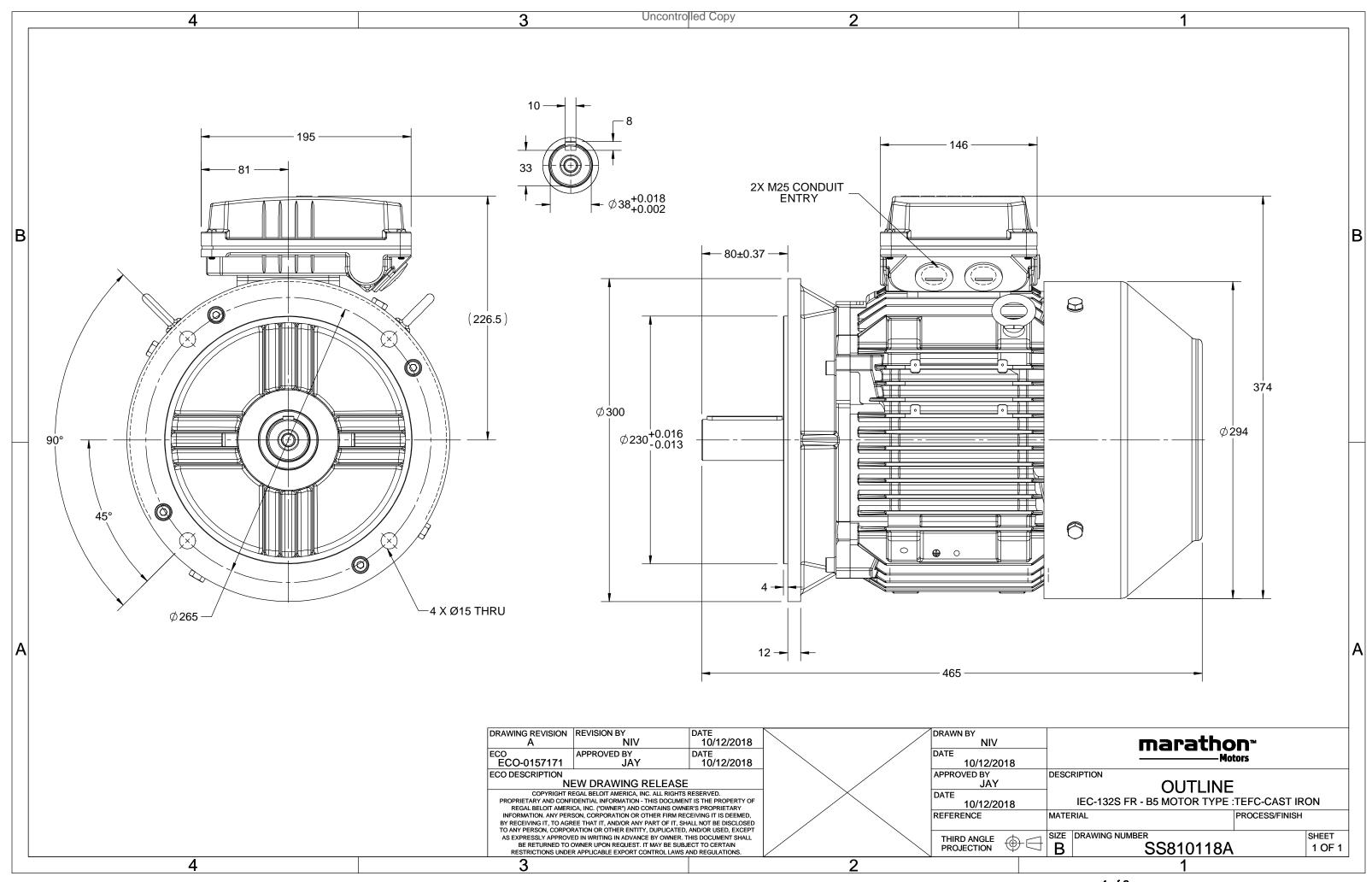
Nameplate Specifications

Phase	3	Output HP	7.50 & 5.50 Hp			
Output KW	5.5 & 4.0 kW	Voltage	230/460 & 200/400 V			
Speed	3535 & 2945 rpm	Service Factor	1.15 & 1.15			
Frame	1328	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	89.5 & 88.1 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	17.6/8.8 & 15/7.5 A	Power Factor	88			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	Н			
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	2.02 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		

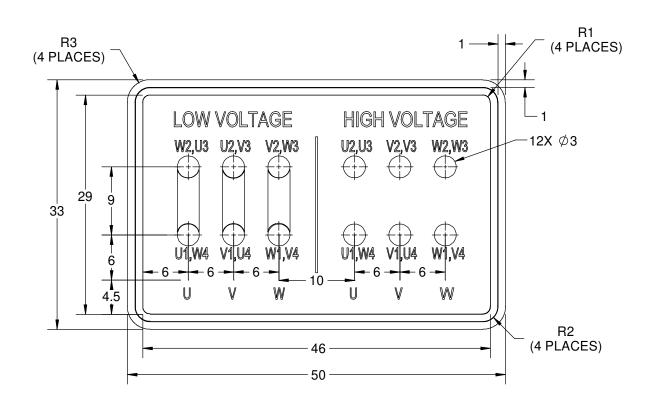
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

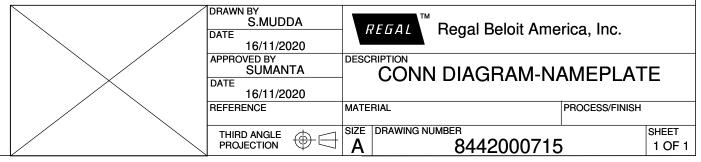
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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[™]



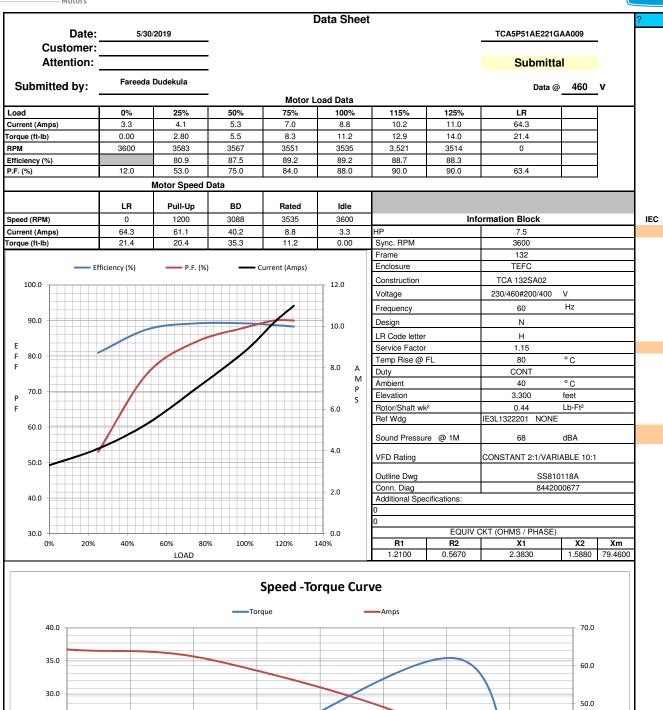
сиѕтомі					CEF	RTIFICATION DATA SI	CUST	OMER P.O. #:		460		
ORDER #						REFERENCE MODEL #:					-	
CONN. DI.		8442000677 SS810118A					CAT #: CUSTOMER PART #:					
WINDING		IE3L1322201	NONE	1	CUSTOMER PART #: MOUNTING:							
SPEED:												
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
НР	kw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
7.5	5.5	3600	3	3535		132S	7	TEFC	TCA 132SA02	н		N
	'	!										
PH	HZ	VOLTS	Δ.	MPS		START TYPE	-	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400		.8&15/7.5		LINE OR INVERTER		ONT	F	1.15	40	3300
	1											•
	F.L. EFF		3/4 LD EFF			1/2 LD EFF	87.5	GTD EFF		ELECT. 1		
	F.L. PF	88.0	3/4 LD PF	84.0		1/2 LD PF	75.0 87.9		SQ CAGE INV RATED			
FI	TORQUE	LR AMPS @	460 V		L.R. TORQUE B.D. TO		B.D. TORG	QUE F.L. RISE		(°C)	l	
	LB-FT	64.3	100 1	21.4 LB-FT 191%		35.3 LB-FT		315% 80		-(0)		
		SOUND POWER		OTOR WK ²		MAX. LOAD WK ²	SAFE STALL TIME		STAR	TS/HOUR	APROX.	MOTOR WGT
68	dBA	77 dBA	0.44	LB-FT ²	0.44	LB-FT ²	10	SEC.		2	76	KG.
					*** SU	PPLEMENTAL INFORMA	TION ***					
		MOUNT TYPE	NT		HAZARDOUS		DRIP COVER SCREENS		DAINT			
	LANGE-265	ODE BRACKET TYPE STANDARD	ROUND	HORIZO	iii.		LOCATION NONE		NO NO	NONE	PAINT BLUE (ENAMEL)	
	L-1140L-200	OTANDARD	ROOND	HORIZO	ITIAL	110		IONE	110	NONE	DEGE (E	IN WILL)
	EARINGS	GREASE	SHAI	T TYPE		SPECIAL DE	SPEC	CIAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
DE	ODE	0.12.102	0		SPECIAL DE		OI EGIAL OBE		S.IAI I MAILINAL		TRAME MATERIAL	
BALL 6308	BALL 6208	POLYREX EM	STANI	IDARD IEC		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
0300	0200											
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS				BRG RTD's	THERMISTORS		CONTROL			
NONE NOT		l N	NONE NONE		NONE		FALSE		NA			
R1 (ohms/ph) R2 (ohms/ph)		R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
1.21 0.567		0.567		2.383 1.588		79.46		0.150		ODE		
N O T					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE							
E S					ENCODER: NONE NONE				PPR			
PREPARED BY: DATE: 11/3/2020					BRAKE: NONE							
FORM: 3531 REV_4 2/27/06					VOLTAGE: NONE HZ: UL: V - LI,ME-INS,CONST UL REC							

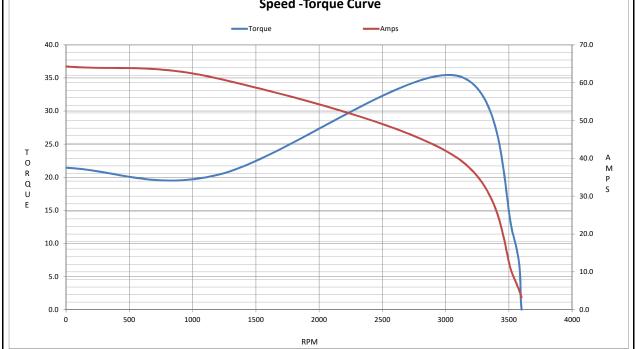














EC Declaration of Conformity

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: TCA5P51AE221GAA009

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

Catalog No: R227
Rework No: N/A

Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

Authorized Representative in the Community:

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