PRODUCT INFORMATION PACKET



Model No: TCA5P51AE231GAA009

Catalog No: R827

TerraMAX® 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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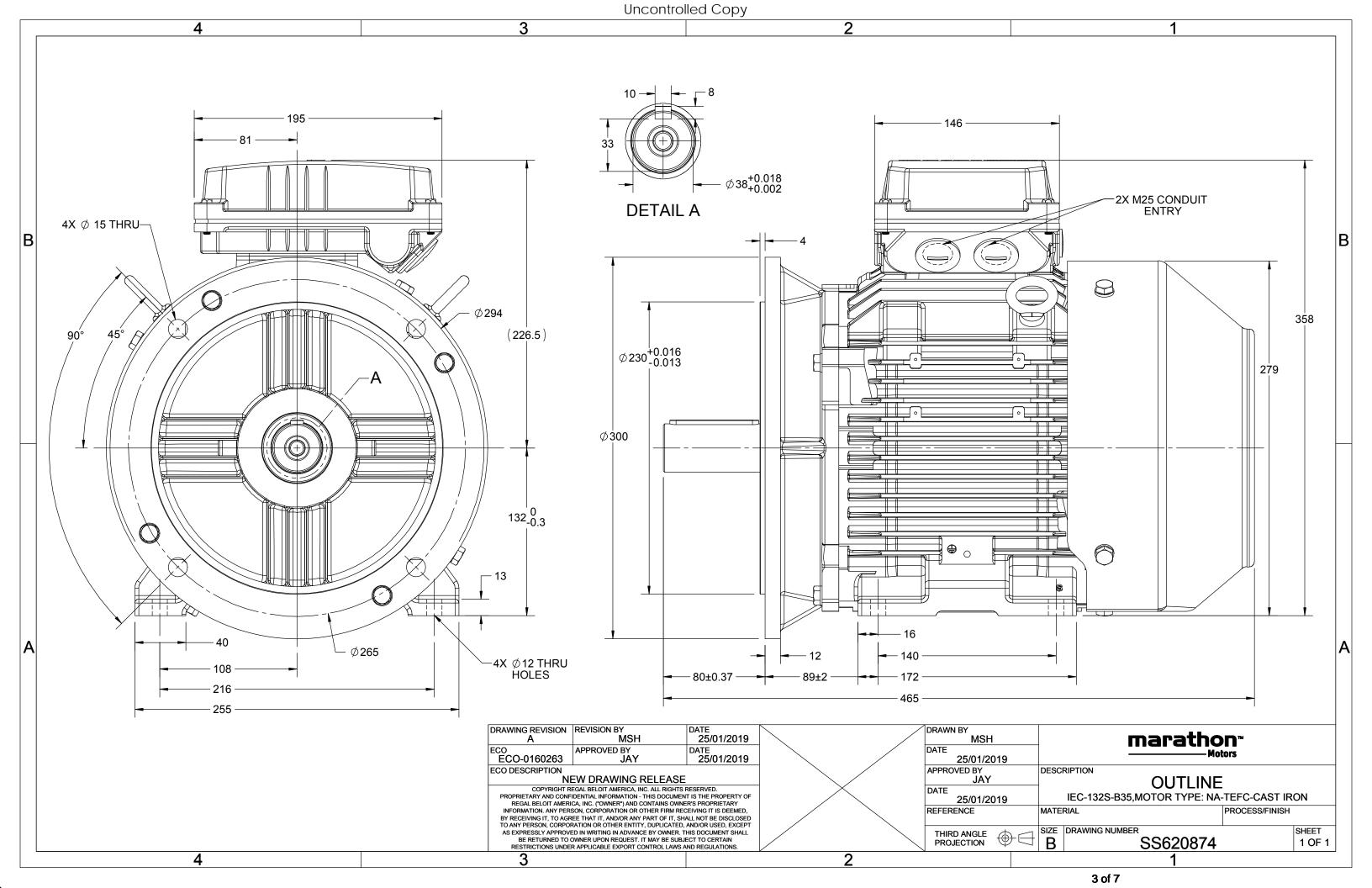
Nameplate Specifications

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	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	38.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620874	Connection Drawing	8442000715			

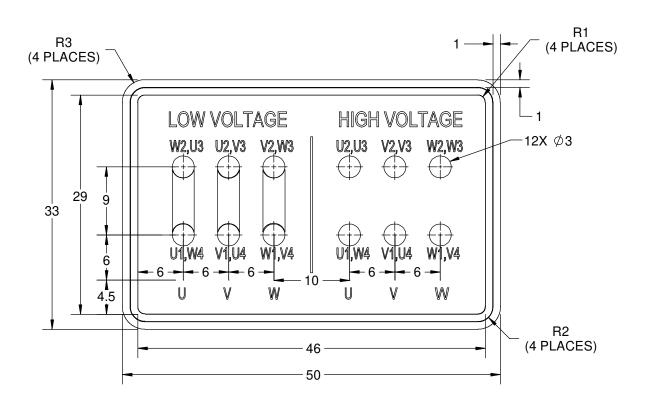
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

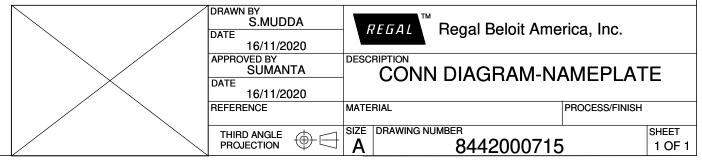
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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[™]



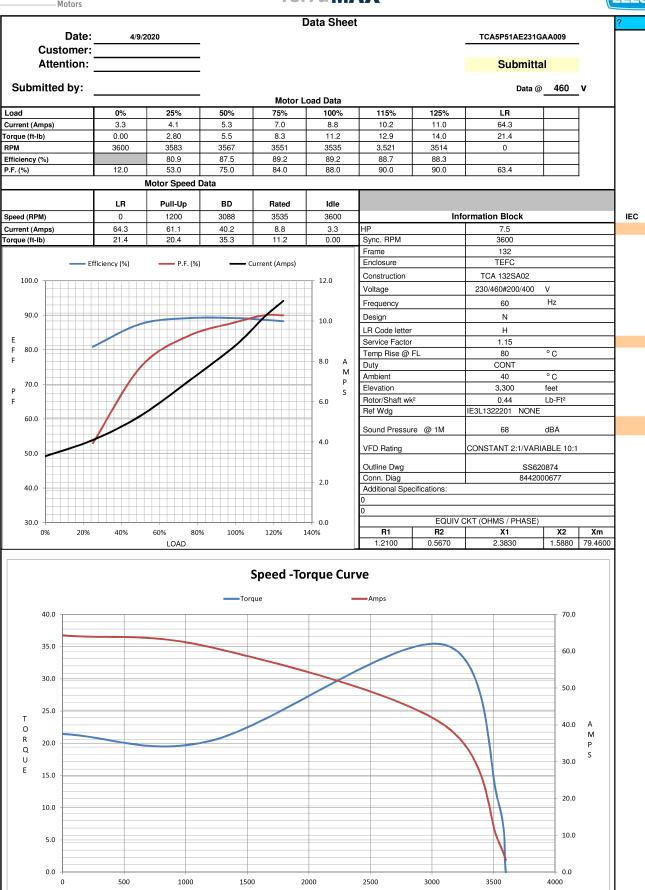
					CEF	RTIFICATION DATA SI	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS620874 IE3L1322201	NONE	1	2/2/04/		CUSTO	CAT #: MER PART #: MOUNTING:	TCA5P51AE231G	AA009 R827		
НР	кw	SYNC RPM		RPM	YPICAL	MOTOR PERFORMA		LOSURE	TYPE	KVA CO	NDE .	DESIGN
		-									JUE .	
7.5	5.50	3600	1 3	535	L	132S	Т	EFC	TCA 132SA02	Н		N
PH 3	HZ 60/50	VOLTS 230/460#200/400		MPS .8&15/7.5	l	START TYPE LINE OR INVERTER		UTY ONT	INSL F	S.F. 1.15	AMB (° C)	ELEV.(Ft.) 3300
	F.L. EFF		3/4 LD EFF	89.2		1/2 LD EFF	87.5	GTD EFF		ELECT. T		
	F.L. PF	88.0	3/4 LD PF	84.0		1/2 LD PF	75.0	87.9		SQ CAGE INV	RATED	
F.L	TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TOR	RQUE F.L. RISE		(° C)		
11.2	LB-FT	64.3		21.4	LB-FT 191% 35.3 LB-FT		315% 80					
SOUND PRESSURE @ 3 FT. SOUND POWER			TOR WK ² MAX. LOAD WK ²					rs/Hour	APROX.	MOTOR WGT		
68	dBA	77 dBA	0.44	LB-FT ²	0.44	LB-FT ²	10 SEC. 2 79 KG.					
					*** SU	PPLEMENTAL INFORMA						
DE BRACKET TYPE ODE BRACKET TYPE MOTOR ORIEI		ENTATION SEVERE DUTY LOCATION		RDOUS	DRIP COVER SCREENS		PAINT					
FF-F	LANGE-265	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO NONE BLUE (ENA		NAMEL)	
DE BE	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	SHAFT MATERIAL F		IATERIAL
BALL 6308	BALL 6208	POLYREX EM	STANI	DARD IEC	NONE		N	ONE	1045 HOT R	OLLED (C-204)	CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		G RTD's		BRG RTD's NONE	THERMISTORS NONE		CONTROL FALSE		SPACE HEATERS NA	
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	(ohms/ph) X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
	1.210	0.567	2	.383		1.588	79.460		0.150		ODE	
* N O T								INV. H	P SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
PREPARED BY:						BRAKE: NONE NONE NONE NONE NONE						
FORM: 3531 REV_4 2/27/06				VOLTAGE: NONE HZ: 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: TCA5P51AE231GAA009

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

Catalog No : R827
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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