## PRODUCT INFORMATION PACKET



Model No: TCA5P51AE271GAA009

Catalog No: R627

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

132M 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	132M	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**

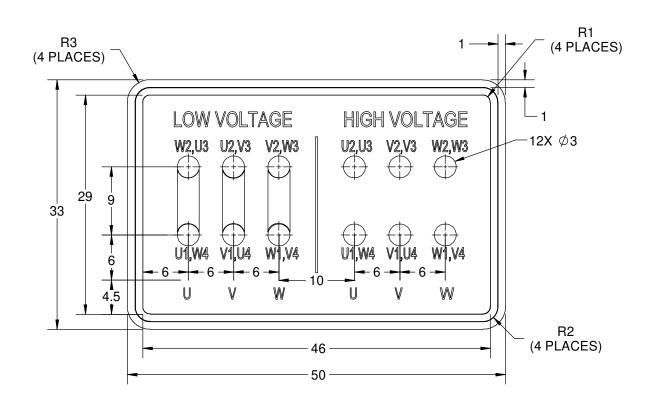
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	2	Rotation	Reversible		
Resistance Main	2.02 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	18.31 in		
Frame Length	7.95 in	Shaft Diameter	1.496 in		
Shaft Extension	3.15 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Connection Drawing	8442000715	Outline Drawing	SS620900		

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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							

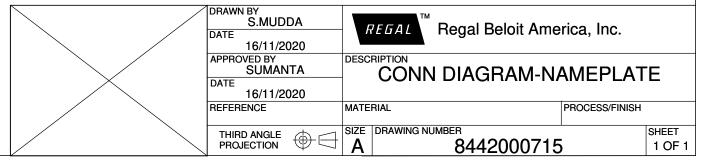
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



### 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**<sup>™</sup>



					CEI	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 SS620900 IE3L1322201	NONE				CUSTO	CAT #: MER PART #: MOUNTING:	TCA5P51AE271G	AA009 R627		
НР	кw	SYNC RPM	-	. RPM	YPICAL	MOTOR PERFORMA		LOSURE	TYPE	KVA CO	NDE .	DESIGN
		-									, DL	
7.5	5.6	3600	1 3	3535	I	132M	ı	EFC	TCA 132SA02	Н		N
<b>PH</b> 3	<b>HZ</b> 60/50	VOLTS 230/460#200/400		MPS .8&15/7.5	l	START TYPE LINE OR INVERTER		UTY ONT	INSL F	<b>S.F.</b> 1.15	AMB (° C) 40	<b>ELEV.(Ft.)</b> 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. TORQU		QUE 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 ROTOR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup> SAFE STALL TIM			STARTS/HOUR		APROX.	MOTOR WGT				
68	dBA	77 dBA	0.44	LB-FT <sup>2</sup>	0.44	LB-FT <sup>2</sup>	10	SEC.		2	77	KG.
					*** SU	PPLEMENTAL INFORMA						
	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE		SEVERE DUTY	LOC	ATION	DRIP COVER	SCREENS		
FT-F	LANGE-165	STANDARD	ROUND	HORIZO	NTAL	NO	N	ONE	NO	NO NONE BLUE (ENAM		NAMEL)
DE BE	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	SHAFT MATERIAL FF		IATERIAL
BALL 6308	BALL 6208	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE		BRG RTD's NONE		MISTORS ONE		NTROL ALSE	SPACE HEATERS NA	
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)	X2 (ohms/ph) Xm (ohms/ph)		VIBRAT	ION (in/sec)	FLOAT			
	1.210	0.567	2	.383		1.588	79	9.460	0	.150	ODE	
* N O T								INV. HI	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							





15.0

10.0

5.0

0

500

1000

1500

2000

RPM







30.0

20.0

10.0

0.0

4000

3000

3500

2500



# **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: TCA5P51AE271GAA009

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

Catalog No : R627
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

Julian Clark Marketing Engineer

Created on 09/01/2022

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