PRODUCT INFORMATION PACKET



Model No: TCA7P51AE271GAA009

Catalog No: R630

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

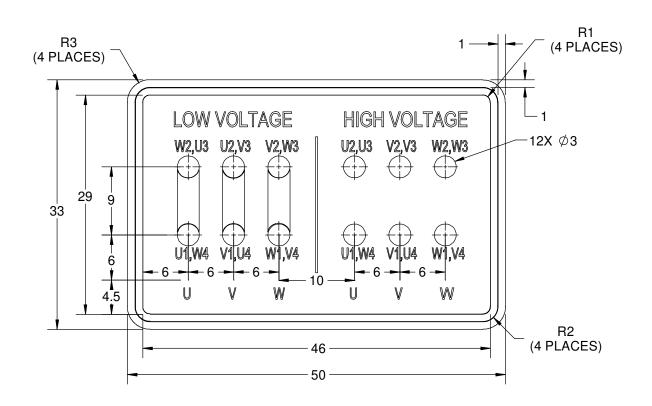
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	2	Rotation	Reversible		
Resistance Main	1.24 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	18.31 in		
Frame Length	7.95 in	Shaft Diameter	1.496 in		
Shaft Extension	3.15 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS620900	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						

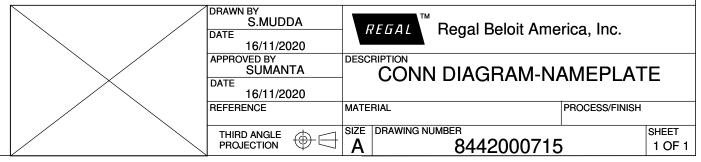
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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[™]



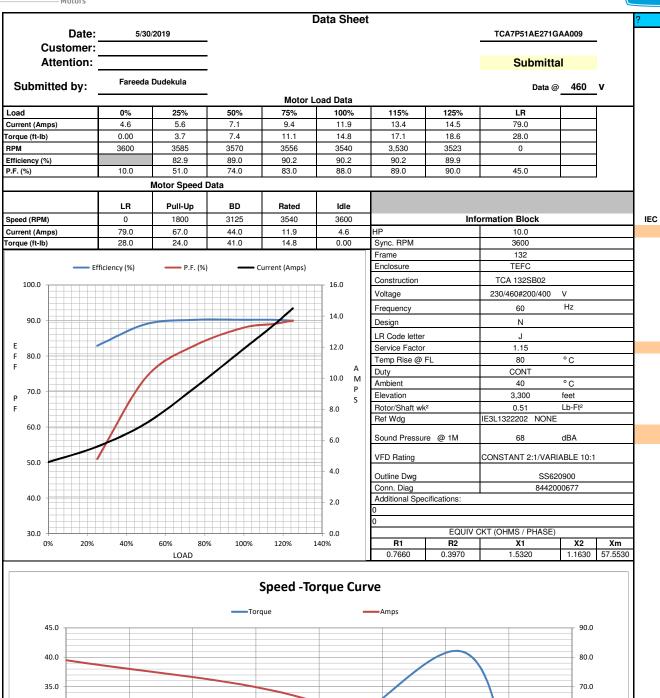
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-331	1				
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA SI	HEET					
CUSTOME	R:							OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:					
CONN. DIA	AGRAM:	8442000677						CAT #:	F	R630		
OUTLINE:		SS620900						MER PART #:				
WINDING:		IE3L1322202	NONE	1				MOUNTING:	F3			
SPEED:												
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
НР	кw	SYNC RPM		. RPM		FRAME	ENGLOSURE		TYPE KVA C		205	DESIGN
ПР	I NVV	STING REWI	FL	RPW		FRAIVIE	ENCLOSURE		ITFE	KVA CODE		DESIGN
10	7.5	3600	3	3540		132S	Т	EFC	TCA 132SB02	J		N
	•					•				•		•
PH	HZ	VOLTS		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	l l	INE OR INVERTER	C	ONT	F	1.15	40	3300
	F.L. EFF	00.0	3/4 LD EFF	90.2		1/2 LD EFF	00.0	OTD FFF	1	ELECT. T	VDE	
	F.L. EFF		3/4 LD EFF			1/2 LD EFF				SQ CAGE IN\		
	F.L. PF	00.0	3/4 LD PF	83.0		1/2 LD PF	74.0	88.7		SQ CAGE IN	RATED	
	. TORQUE	LR AMPS @	460 V		L.R. TORQUE B.D. TO		B.D. TOR	RQUE F.L. RISE		(° C)	l	
	LB-FT	79.0	400 V	28.0	LB-FT	189%	41.0 LB-FT		277% 80		<u>=(c)</u>	
14.0	LD-11	75.0		20.0	LD-1 1	10070	41.0	LD-1 1	21170		1	
SOUND	PRESSURE @ 3											
	FT.	SOUND POWER ROTOR WK ²			/K ² MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR		APROX. MOTOR	MOTOR WGT
72	dBA	81 dBA	0.51	LB-FT ²	0.51	LB-FT ²	10	SEC.		2	86	KG.
			•									
			MOUNT		*** SU	PPLEMENTAL INFORMA						
DE BRACKET TYPE ODE BRACKET TYPE		TYPE			HAZARDOUS LOCATION DRIP CO		DRIP COVER	SCREENS		INT		
	LANGE-165	STANDARD	ROUND		HORIZONTAL NO		200/11/0/1		NO NO	NONE	BLUE (ENAMEL)	
	LAITOL-100	OTANDAND	TOOND	HORIZO	NIAL.	140		ONE	110	NONE	DEGE (_IV/IVILL)
В	EARINGS											
DE	ODE	GREASE	SHA	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	CTANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6308	6208	FOLTREXEM	STAIN	DAND IEC		NONE	IN	ONE	1045 HOT K	(C-204)	CASI	IKON
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		WDG RTD's BRG RTD's		THERMISTORS		CONTROL				
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	NA .
D4	(-b(-b)	DO (above (ab)	V4 /-	h (h-)		VO (-h(-h)	V /-	hms/ph)	VIDDAT	ION (:-/)		047
R1 (ohms/ph) R2 (ohms/p 0.766 0.397		0.397		(ohms/ph) X2 (ohms/ph) 1.532 1.163			nms/pn) 7.553	VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.700	0.391	'	.552		1.103	31	.555		7.130		DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
0			INV. HP SPEED RANGE: NONE									
T												
E					ENCODER: NONE							
s								NONE				
*								NONE			NONE	PPR
					BRAKE: NONE							
	PREPARED BY:								NONE	NON	E	
	DATE:	11/16/2020						FT-LB:		NA		
								VOLTAGE:		IONE		HZ:
FORM: 3531 REV_4 2/27/06				UL: V - LI,ME-INS,CONST UL REC								

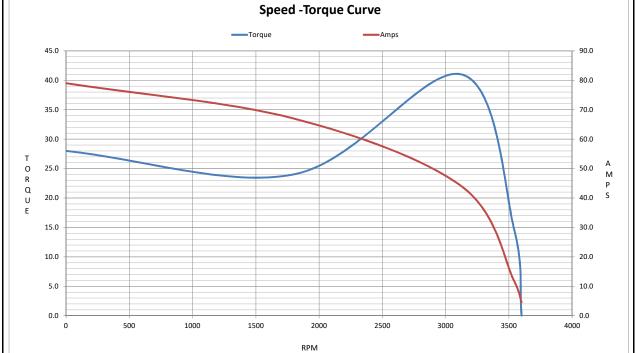














EC Declaration of Conformity

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: TCA7P51AE271GAA009

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

Catalog No : R630
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:

Authorized Representative in the Community:

J. cerse

Julian Clark

Michael A. Logsdon Vice President, Technology

Marketing Engineer

Created on 09/01/2022

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