PRODUCT INFORMATION PACKET



Model No: TCA0033AE271GAA009

Catalog No: R653

Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 132S Frame, TEFC





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Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 980 rpm	Service Factor	1.15 & 1.15
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 84.3 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	11.6/5.8 & 10.4/5.2 A	Power Factor	73
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 Reversible Round		
Poles	6	Rotation			
Resistance Main	2.75 Ohms	Mounting			
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron 18.31 in		
Shaft Type	IEC	Overall Length			
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	8442000729	Outline Drawing	SS620900		

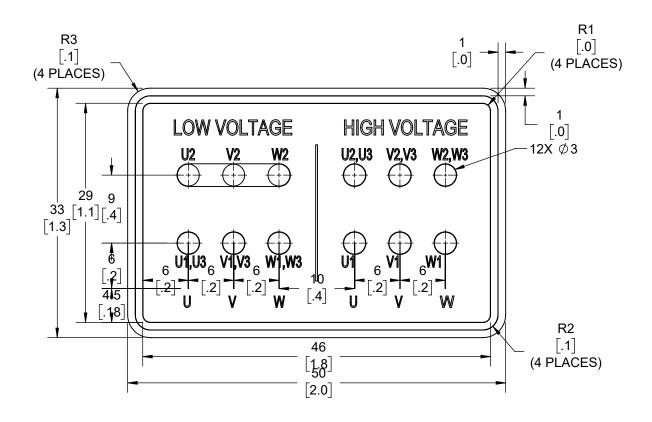
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DRAWING REVISION	REVISION BY	REV DATE/© DATE
Α	LK	30/6/2021
ECO	APPROVED BY	DATE
CR-0003544	JAY	30/6/2021
ECO DESCRIPTION		

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



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY 3. THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: U1-U3, V1-V3 AND W1-W3 OF ARIAL WITH 3mm SIZE 4.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LK DATE 30/6/2021	REGAL Regal Beloit America, Inc.				
	APPROVED BY JAY DATE 30/6/2021	CONN DIAGRAM-NAMEPLATE 9LEADS - STAR CONNECTION				
	REFERENCE	MATERIAL REFER NOTES PROCESS/FINIS	Н			
	THIRD ANGLE PROJECTION	A Paraming number 8442000729	SHEET 1 OF 1			



TerraMAX[™]



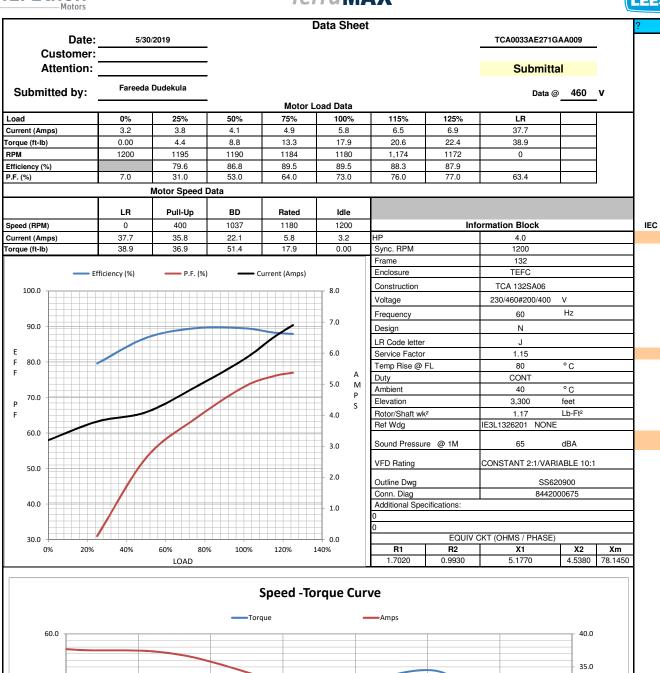
									P.O. BOX 8003				
									WAUSAU, WI 544	101-8003			
									PH. 715-675-331				
									FII. 713-073-331	'			
									DATA VOLTS:	460			
					CEI	RTIFICATION DATA SI	HEET						
					OLI	THE ICATION DATA SI							
CUSTOME				_				OMER P.O. #:					
ORDER #:							REFEREN	CE MODEL #:	TCA0033AE271G	AA009			
CONN. DIA	AGRAM:	8442000675						CAT #:	F	R653		=	
OUTLINE:		SS620900					CUSTO	MER PART #:					
WINDING:		IE3L1326201	NONE	1				MOUNTING:	E3			-	
		IL3L1320201	NONE	'				WOONTING.	13				
SPEED:		_											
				T	YPICAL	. MOTOR PERFORMA	NCE DA	TA					
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN	
4	3.0	1200	1	1180		132S	T	EFC	TCA 132SA06	J		N	
PH	HZ	VOLTS	Α	MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	11 6/5	8&10.4/5.2		LINE OR INVERTER	C	ONT	F	1.15	40	3300	
٣	00,00								· ·				
		I I							T				
	F.L. EFF		3/4 LD EFF	89.5		1/2 LD EFF	86.8	GTD EFF		ELECT. T			
	F.L. PF	73.0	3/4 LD PF	64.0		1/2 LD PF	53.0	87.9		SQ CAGE INV	RATED		
F.L	. TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)		
	LB-FT	37.7		38.9	LB-FT	217%	51.4	LB-FT	287% 80		i ,		
17.5	LD-1 1	01.1		50.5	LD-1 1	21770	01.7	LD-1 1	20170	- 00			
SOLIND	PRESSURE @ 3												
I SOUND !	FT.	SOUND POWER	POT	OR WK ²		MAX. LOAD WK ²	CVEEC	TALL TIME	STAD.	rs/Hour	APROX.	MOTOR WGT	
65	dBA	74 dBA 1.17		LB-FT ² 1.17 LB-FT ²		15 SEC.				77 KG.			
65	UBA	/4 UBA	1.17	LD-F1	1.17	LB-F1	15	SEU.		2	11	NG.	
					*** SU	PPLEMENTAL INFORMA							
			MOUNT					RDOUS					
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIENTATION		SEVERE DUTY		ATION	DRIP COVER	SCREENS	PAINT		
FT-F	LANGE-165	STANDARD	ROUND	HORIZON	ONTAL NO		N	ONE	NE NO NONE		BLUE (E	BLUE (ENAMEL)	
		•	-	•						-	•		
В	EARINGS												
DE	ODE	GREASE SI		SHAFT TYPE SP		SPECIAL DE SPECIA	SPECIAL ODE	SHAFT MATERIAL		FRAME MATERIAL			
BALL	BALL												
		POLYREX EM	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
6308	6208												
											SPACE	HEATERS	
THE	RMOSTATS	PROTECTORS	WDG	G RTD's		BRG RTD's	THER	MISTORS	COI	NTROL	OI AGE	HEATERO	
	NONE	NOT			NONE		N	NONE		FALSE		NA	
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Ym (c	hms/ph)	VIRRAT	ION (in/sec)	FI	OAT	
	1.702	0.993		.177	4.538			3.145	0.150		ODE		
	1.702	0.993		.177		4.536	- / (5.145		. 130		DE	
*													
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1		
0						INV. H	V. HP SPEED RANGE: NONE						
Т						5. 225 10 1102.							
								ENOCE ==	NONE				
E								ENCODER:	NONE				
S								NONE					
*								NONE			NONE	PPR	
								BRAKE:	NONE				
l	PREPARED BY:								NONE	NON	F		
1	DATE: 11/16/2020						FT-LB: NA						
1	DATE:												
l						ļ.	VOLTAGE: NONE HZ:						
I FORM: 35	3531 REV_4 2/27/06							UL: V - LI,ME-INS,CONST UL REC					

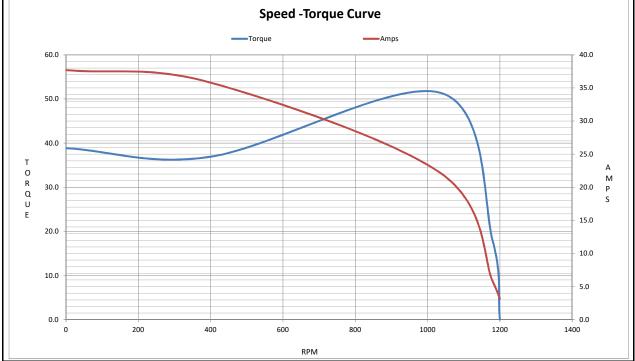














EC Declaration of Conformity

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: TCA0033AE271GAA009

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

Catalog No : R653
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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