PRODUCT INFORMATION PACKET

Model No: TCA2P23AE221GAA009 Catalog No: R223 Cast Iron Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 112M Frame, TEFC



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Motors



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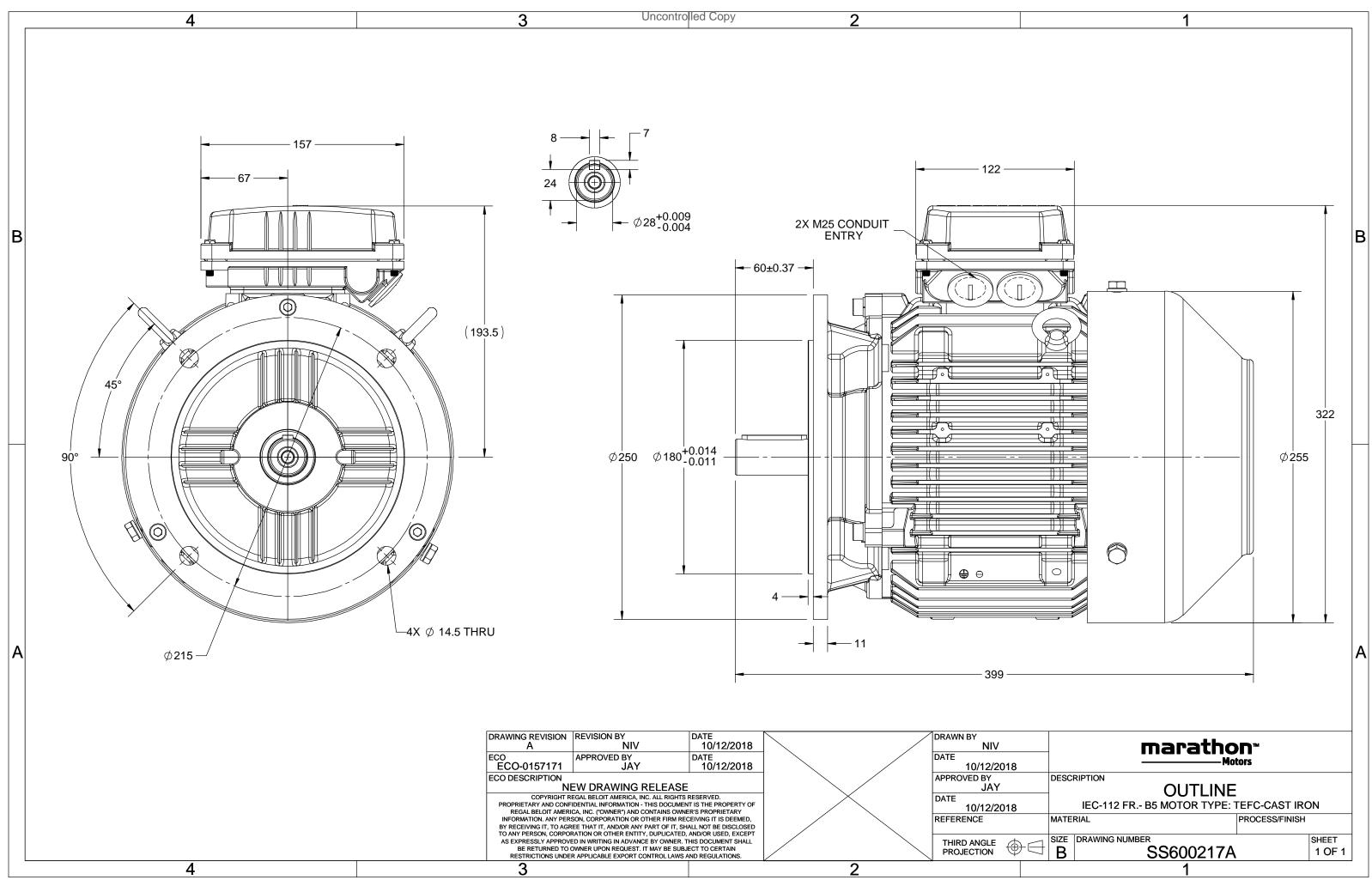
Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp 230/460 & 200/400 V			
Output KW	2.2 & 1.5 kW	Voltage				
Speed	1170 & 980 rpm	Service Factor	1.15 & 1.15			
Frame	112M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	89.5 & 82.5 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	8.8/4.4 & 8.2/4.1 A	Power Factor	70			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	М			
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

Technical Specifications

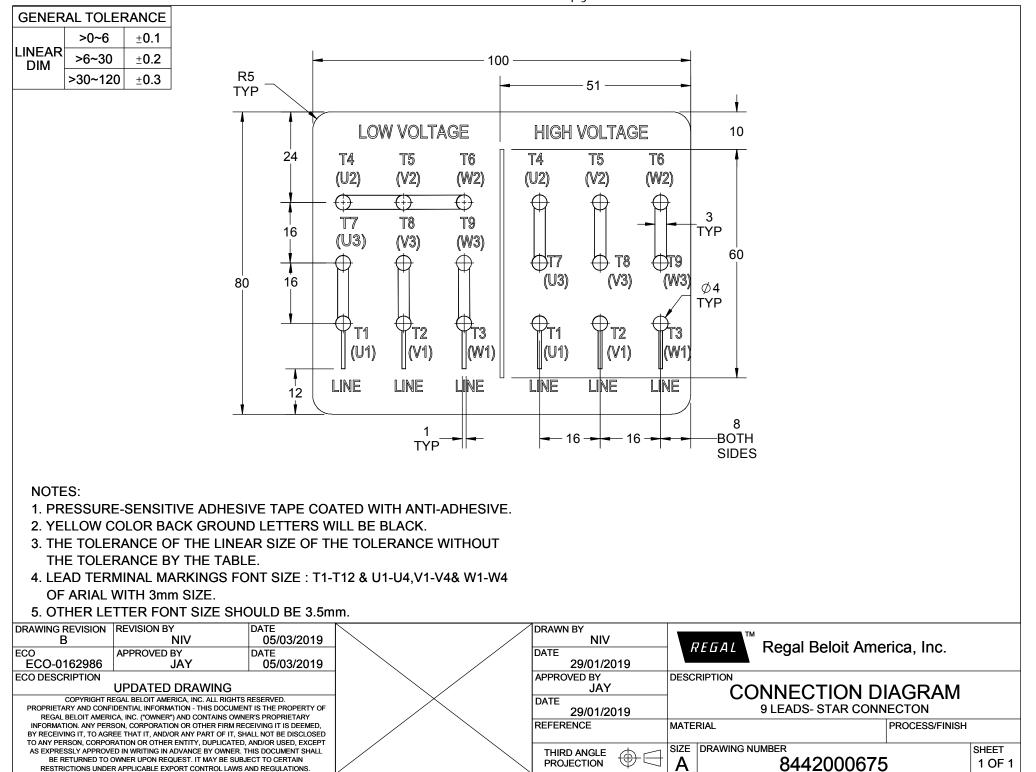
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter Reversible		
Poles	6	Rotation			
Resistance Main	3.31 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	15.71 in		
Frame Length	6.85 in	Shaft Diameter	1.102 in		
Shaft Extension	2.36 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Connection Drawing	8442000675	Outline Drawing	SS600217A		

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									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
					CEF	RTIFICATION DATA SI	HEET					
CUSTOME	R:			_				OMER P.O. #:				
ORDER #:							REFERENCE MODEL #: TCA2P23AE221GAA009				-	
CONN. DIA OUTLINE:		8442000675 SS600217A					CAT #: CUSTOMER PART #:					
WINDING:		IE3L1126201	NONE	1			00310	MOUNTING:				
SPEED:												
				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA	1			
HP	ĸw	SYNC RPM	FL	RPM FRAME		ENCLOSURE		TYPE	KVA CODE		DESIGN	
3	2.2	1200	1	1170	112M		1	EFC	TCA 112MA06	М		N
PH	HZ	VOLTS	A	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	8.8/4.	4&8.2/4.1	I	LINE OR INVERTER	C	ONT	F	1.15	40	3300
		L I							1			
	F.L. EFF F.L. PF		3/4 LD EFF 3/4 LD PF			1/2 LD EFF 1/2 LD PF	83.4 50.0	670 EFF 87.9		ELECT. T SQ CAGE IN\		
	F.L. FF	70.0	3/4 LD FF	01.0		1/2 LD FF	50.0	07.9		SQ CAGE IN	RATED	
F.L	. TORQUE	LR AMPS @	LR AMPS @ 460 V		L.R. TORQUE			B.D. TOR	QUE	F.L. RISE	: (°C)	
13.5	LB-FT	38.2		43.6	LB-FT	323%	51.4	LB-FT	381%	80		
	PRESSURE @ 3								1		1	
0001101	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	S/HOUR	APROX.	MOTOR WGT
55	dBA	64 dBA	0.50	LB-FT ²	0.5	LB-FT ²	15	SEC.		2	60	KG.
					*** 611	PPLEMENTAL INFORMA						
			MOUNT					ARDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE		SEVERE DUTY		CATION	DRIP COVER	SCREENS		INT
++-+	LANGE-215	STANDARD	ROUND	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (I	ENAMEL)
BI	EARINGS	005405					0055					
DE	ODE	GREASE	SHA	FITTPE	T TYPE SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	STAN	DARD IEC	ARD IEC NONE		NONE 1045 H0		1045 HOT R	OLLED (C-204)	CAST IRON	
6306	6206											
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's		MISTORS		NTROL		
	NONE	NOT	N	ONE		NONE	N	IONE	E,	ALSE	1	NA
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Xm (ohms/ph)	VIBRAT	ON (in/sec)	FL	OAT
	1.986	1.702		.146		7.469		4.454		.150		DE
	1											
N O T								INV. HE	SPEED RANGE:	CONSTANT 2:1/VAF NONE	RIABLE 10:1	
E S								ENCODER: NONE NONE	NONE		NONE	PPR
	-							BRAKE:				
	PREPARED BY:	11/16/2020							NONE	NON	E	
	DATE:	11/10/2020						FT-LB: VOLTAGE:		NA ONE		HZ:
FORM: 35	31 REV_4	2/27/06				-	UL:		CONST UL REC			ΠΖ.

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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 : TCA2P23AE221GAA009

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

Catalog No : R223

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

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Authorized Representative in the Community:

Julian Clark Marketing Engineer