PRODUCT INFORMATION PACKET

Model No: TCA18P1AE271GAA009 Catalog No: R639 Cast Iron Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 160L Frame, TEFC



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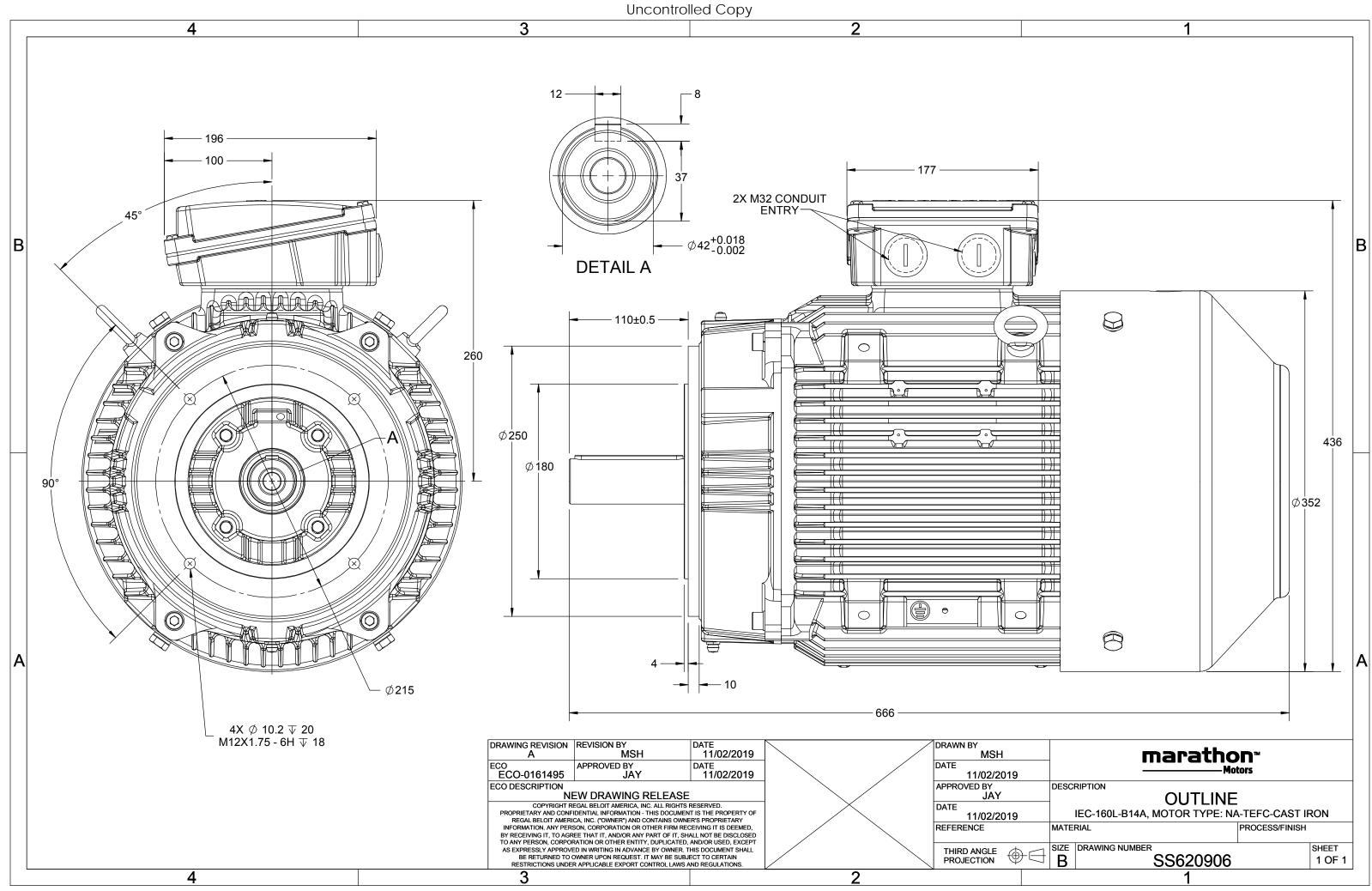
Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp		
Output KW	18.5 & 15.0 kW	Voltage	230/460 & 200/400 V		
Speed	3550 & 2960 rpm	Service Factor	1.15 & 1.15		
Frame	160L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	91.7 & 91.9 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	56/28.1 & 53.5/26.7 A	Power Factor	90		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	Н		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
UL	Recognized	CSA	N		
CE	Y	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

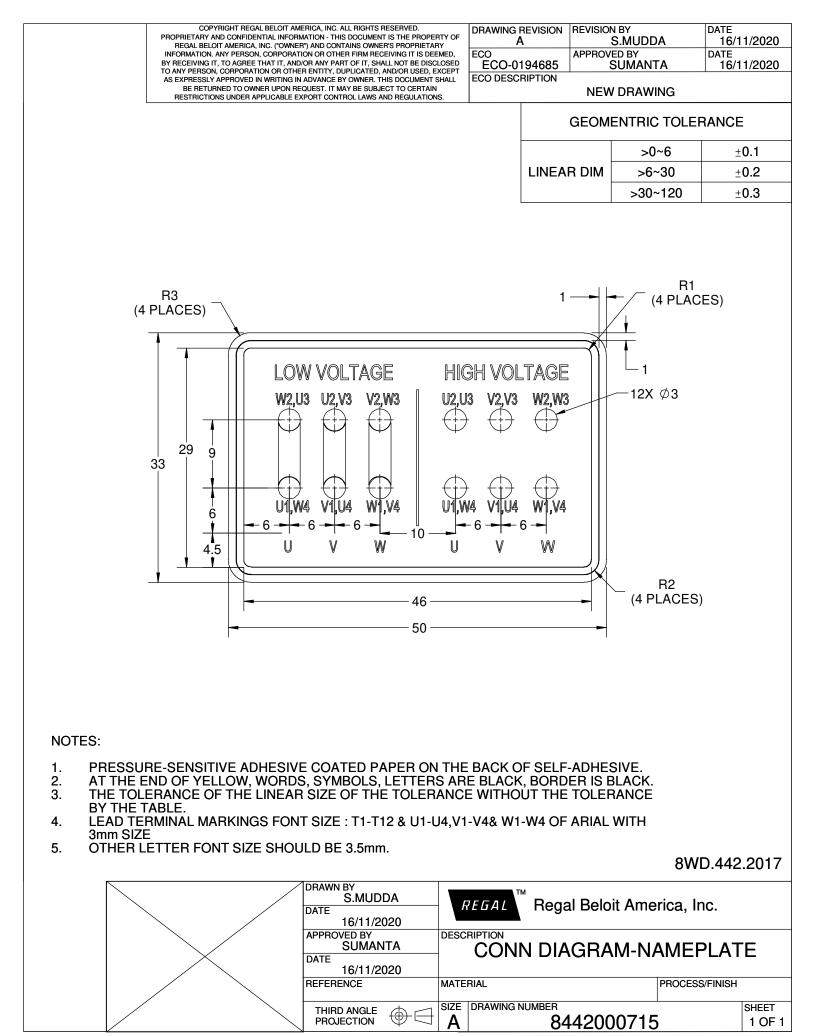
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.5 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	26.22 in
Frame Length	11.73 in	Shaft Diameter	1.654 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	8442000715	Outline Drawing	SS620906

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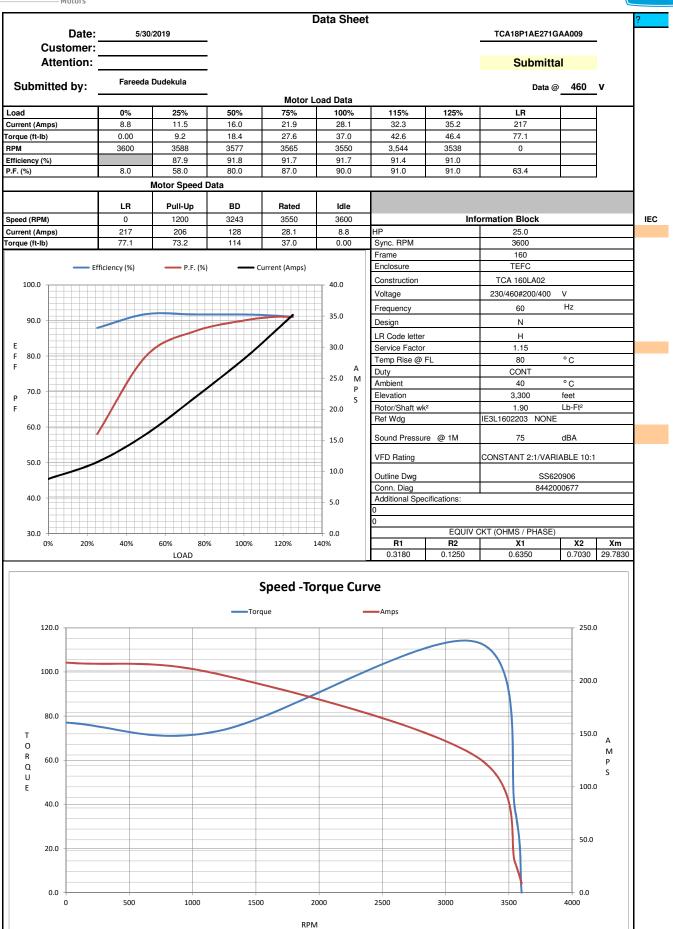
									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-3311 DATA VOLTS:				
					CEF	RTIFICATION DATA SI	HEET						
CUSTOME	R:						CUST	OMER P.O. #:					
ORDER #:							REFEREN	CE MODEL #:	TCA18P1AE271G	AA009			
	CONN. DIAGRAM: 8442000677				CAT #:								
OUTLINE:		SS620906					CUSTOMER PART #:						
WINDING:		IE3L1602203	NONE	1				MOUNTING:	F3				
SPEED:				-				-					
HP	ĸw	SYNC RPM		I. RPM		MOTOR PERFORMA			ТҮРЕ	10/4 0		DESIGN	
					RPM FRAME		ENCLOSURE			KVA CODE			
25	18.7	3600	3	3550		160M	1	EFC	TCA 160LA02	Н		N	
PH	HZ	VOLTS	A	MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	56/28.1	&53.5/26.7	I	INE OR INVERTER	C	CONT	F	1.15	40	3300	
				1		1			1				
	F.L. EFF		3/4 LD EFF			1/2 LD EFF	91.8	GTD EFF		ELECT. 1			
	F.L. PF	90.0	3/4 LD PF	87.0		1/2 LD PF	80.0	90.5		SQ CAGE IN	/ RATED		
EI	. TORQUE	LR AMPS @	460 V	1	I P	TORQUE		B.D. TOR		F.L. RISE	= (° C)		
37.0		217	400 V	77.1	LB-FT	208%	114	LB-FT	308%	80	-(0)		
01.0		2.0				20070			00070	00	-		
SOUND F	PRESSURE @ 3										1		
	FT.	SOUND POWER		OR WK ²		MAX. LOAD WK ²		TALL TIME	STAR	rs/hour	APROX.	MOTOR WGT	
75	dBA	84 dBA	1.90	LB-FT ²	1.9	LB-FT ²	7	SEC.		2	168	KG.	
					*** 911	PPLEMENTAL INFORMA							
	MOUNT			HAZARDOUS									
DE BRACKET TYPE		ODE BRACKET TYPE	TYPE	MOTOR ORIE		SEVERE DUTY		CATION	DRIP COVER	SCREENS	PAINT		
FT-F	LANGE-215	STANDARD	ROUND	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (F	NAMEL)	
	EARINGS	1							1				
DE	ODE	GREASE	SHAP	FT TYPE		SPECIAL DE SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL			
BALL	BALL												
6309	6209	POLYREX EM	STAN	DARD IEC	NONE		N	IONE	1045 HOT R	OLLED (C-204)	CAST	CAST IRON	
											SPACE	HEATERS	
	NONE	PROTECTORS NOT		ONE		BRG RTD's NONE		MISTORS		NTROL ALSE	+	IA	
	NONE	NOT	IN	ONE		NONE	ľ	IONE	F/	ALOE		IA	
R1	(ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph)		X2 (ohms/ph)	Xm (ohms/ph)	VIBRATI	ON (in/sec)	FL/	DAT	
		0.125			0.703	29.783		0.150		ODE			
		•											
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VA	RIABLE 10:1		
E S								ENCODER: NONE NONE	NONE		NONE	PPR	
								BRAKE:	NONE				
	PREPARED BY:								NONE	NON	IE		
	DATE:	11/16/2020						FT-LB:		NA			
								VOLTAGE:		ONE		HZ:	
FORM: 35	31 REV_4	2/27/06					UL:	V - LI,ME-INS,	CONST UL REC				

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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 : TCA18P1AE271GAA009

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

Catalog No: R639

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