PRODUCT INFORMATION PACKET





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Motors

fra Regal Rexnord

Product Information Packet: Model No: TCA0152AE271GAA009, Catalog No:R637 Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 160M Frame, TEFC

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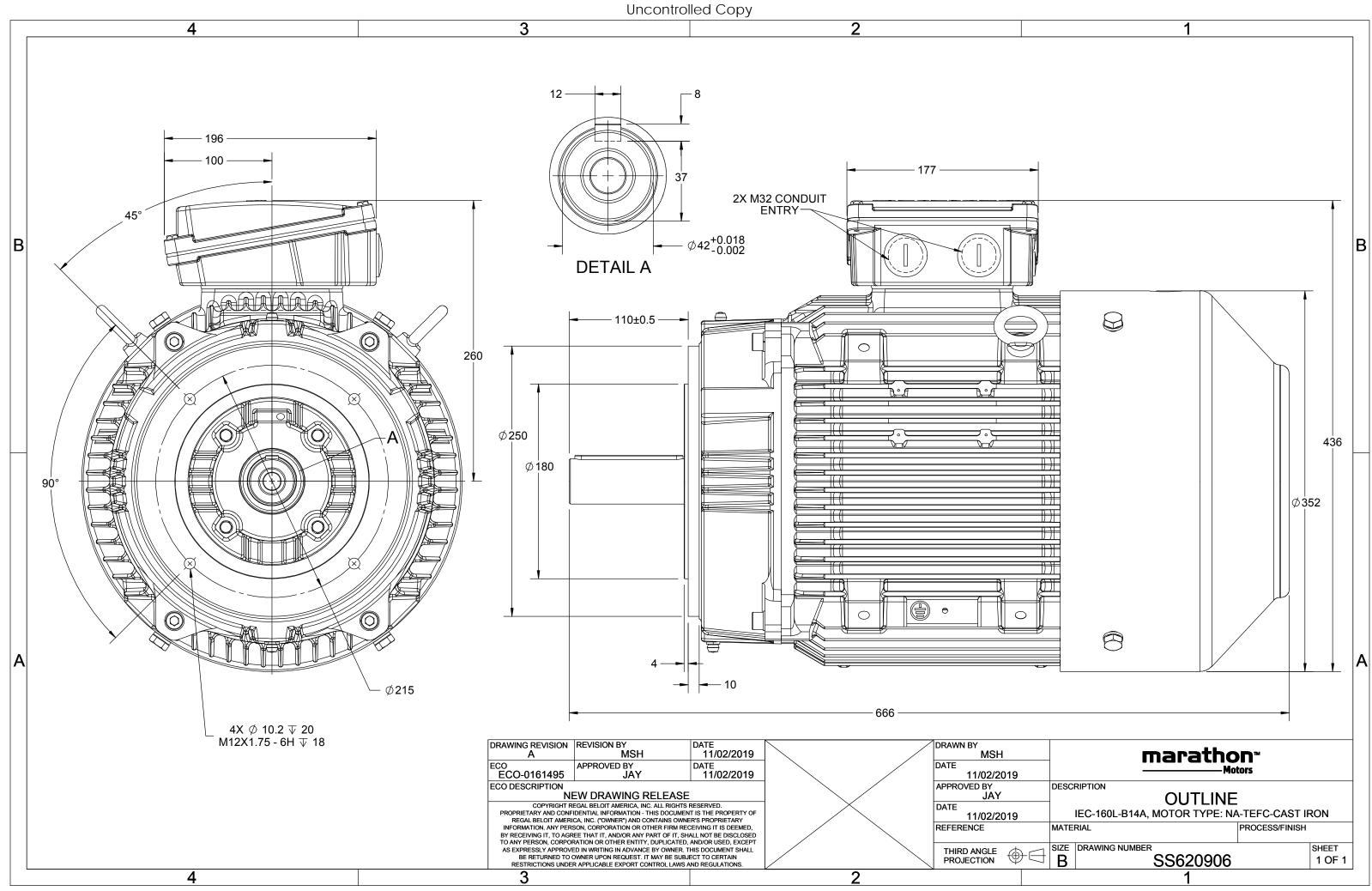
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp		
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V		
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	93 & 91.4 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	50/25.1 & 45.5/22.8 A	Power Factor	81		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	J		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
UL	Recognized	CSA	Ν		
CE	Υ	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

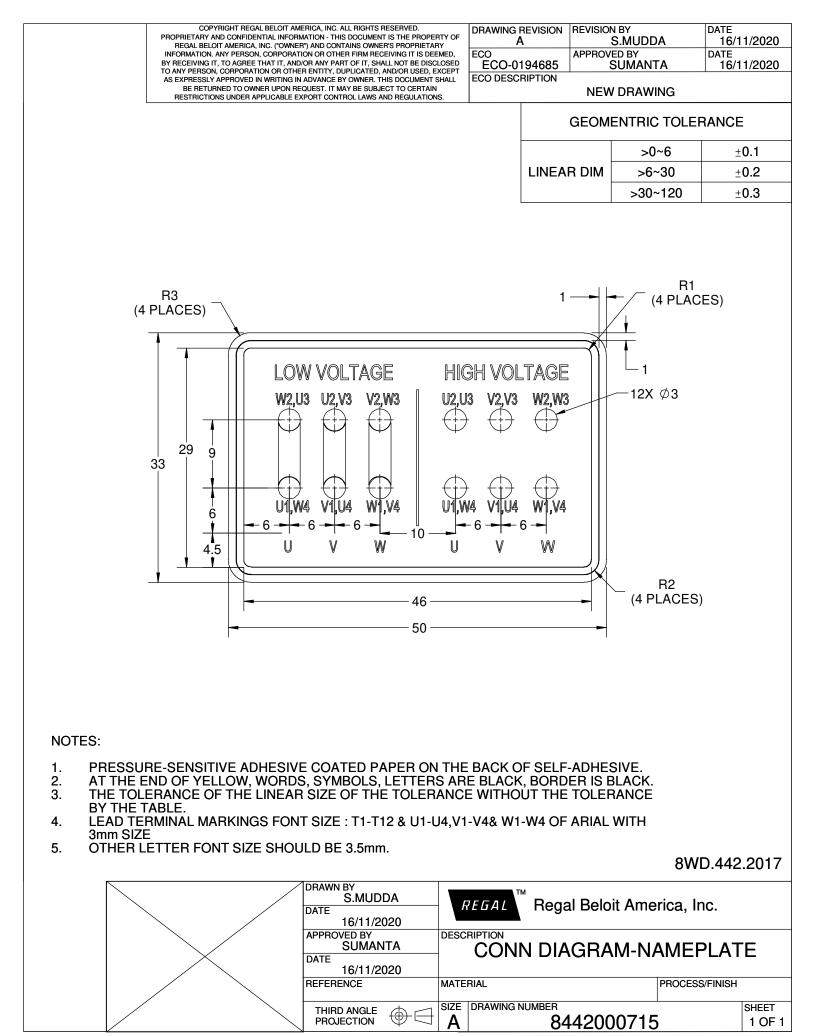
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	4	Rotation	Reversible		
Resistance Main	.49 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				
Outline Drawing	SS620906	Connection Drawing	8442000715		

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									P.O. BOX 8003				
					WAUSAU, WI 54401-8003 PH. 715-675-3311								
									DATA VOLTS:	460			
					CEI	RTIFICATION DATA SI	HEET						
					01								
CUSTOME	-R-						CUST	OMER P.O. #:					
ORDER #:									TCA0152AE271G	AA009			
		8442000677						CAT #:					
		SS620906				CUSTOMER PART #:							
WINDING:		IE3L1604202	NONE	1				MOUNTING:					
SPEED:													
		•		т		MOTOR PERFORMA		ТА					
									1				
HP	ĸw	SYNC RPM	FI	. RPM	FRAME		ENC	LOSURE	TYPE	KVA C	DDE	DESIGN	
20	14.9	1800		1775		160M	1	EFC	TCA 160LA04	J		N	
РН	HZ	VOLTS	,	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400		&45.5/22.8		LINE OR INVERTER		CONT	F	1.15	40	3300	
3	00/30	230/400#200/400	50/25.	043.3/22.0					Г	1.15	40	3300	
	F.L. EFF	03.0	3/4 LD EFF	93.0		1/2 LD EFF	92.2	GTD EFF		ELECT. 1	VDE		
	F.L. PF		3/4 LD EFF 3/4 LD PF			1/2 LD EFF	62.0	92.0		SQ CAGE IN			
	1.L.FI	01.0	3/4 LD FI	74.0		1/2 LD F1	02.0	32.0		SQ CAGE IN	TRAILD		
EI	TORQUE	LR AMPS @	460 V		L.R. TORQUE			B.D. TOR	QUE F.L. RIS		(° C)		
59.2 LB-FT 179		400 V	145 LB-FT 245%		189	LB-FT	319% 80		-(0)				
00.2	20-11	110		140	20-11	24070	100	20-11	01070	00			
SOUND	PRESSURE @ 3								1				
	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT	
68	dBA	77 dBA	2.86	LB-FT ²	2.86	LB-FT ²	10	SEC.		2	165	KG.	
			•										
					*** SU	PPLEMENTAL INFORMA	TION ***						
	MOUNT			HAZARDOUS									
DE BRACKET TYPE		ODE BRACKET TYPE		TYPE MOTOR ORIE				CATION	DRIP COVER	SCREENS		INT	
FT-F	LANGE-215	STANDARD	ROUND	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	NAMEL)	
									1		1		
	EARINGS	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT	MATERIAL	FRAME MATERIAL		
DE	ODE												
BALL	BALL	POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
6309	6209												
		1							1		1		
-	RMOSTATS	PROTECTORS		G RTD's		BRG RTD's	TUED	MISTORS		NTROL	SPACE	HEATERS	
	NONE	NOT		IONE		NONE		IONE		ALSE		IA	
	NUNE	NUT		IONE		NONE	N	IONE	<u> </u>	ALSE	r	IA	
D4	(ohms/ph)	R2 (ohms/ph)	V1 (c	hms/ph)		X2 (ohms/ph)	Vm (ohms/ph)	VIDDAT	ION (in/sec)	51	DAT	
0.298		0.156).752	0.979			1.940		0.150		ODE	
	0.230	0.150		1.1 52		0.979	2	1.540		.150	0		
*													
N							INV		CONSTANT 2:1/VAI	RIABLE 10:1			
0					INVERTER TORQUE: CONCIDENT 2. WORKHOLE 10.1								
Ť								0. 222 .0 .0 .0 .0					
E								ENCODER:	NONE				
S								NONE					
*								NONE			NONE	PPR	
								BRAKE:	NONE		HONE		
PREPARED BY:				NONE NONE									
	DATE:	11/16/2020						FT-LB:		NA	-		
							VOLTAGE: NONE 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 : TCA0152AE271GAA009

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

Catalog No : R637

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