PRODUCT INFORMATION PACKET

Model No: TCA18P1AE251GAA009 Catalog No: R939 TerraMAX® 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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marathon®

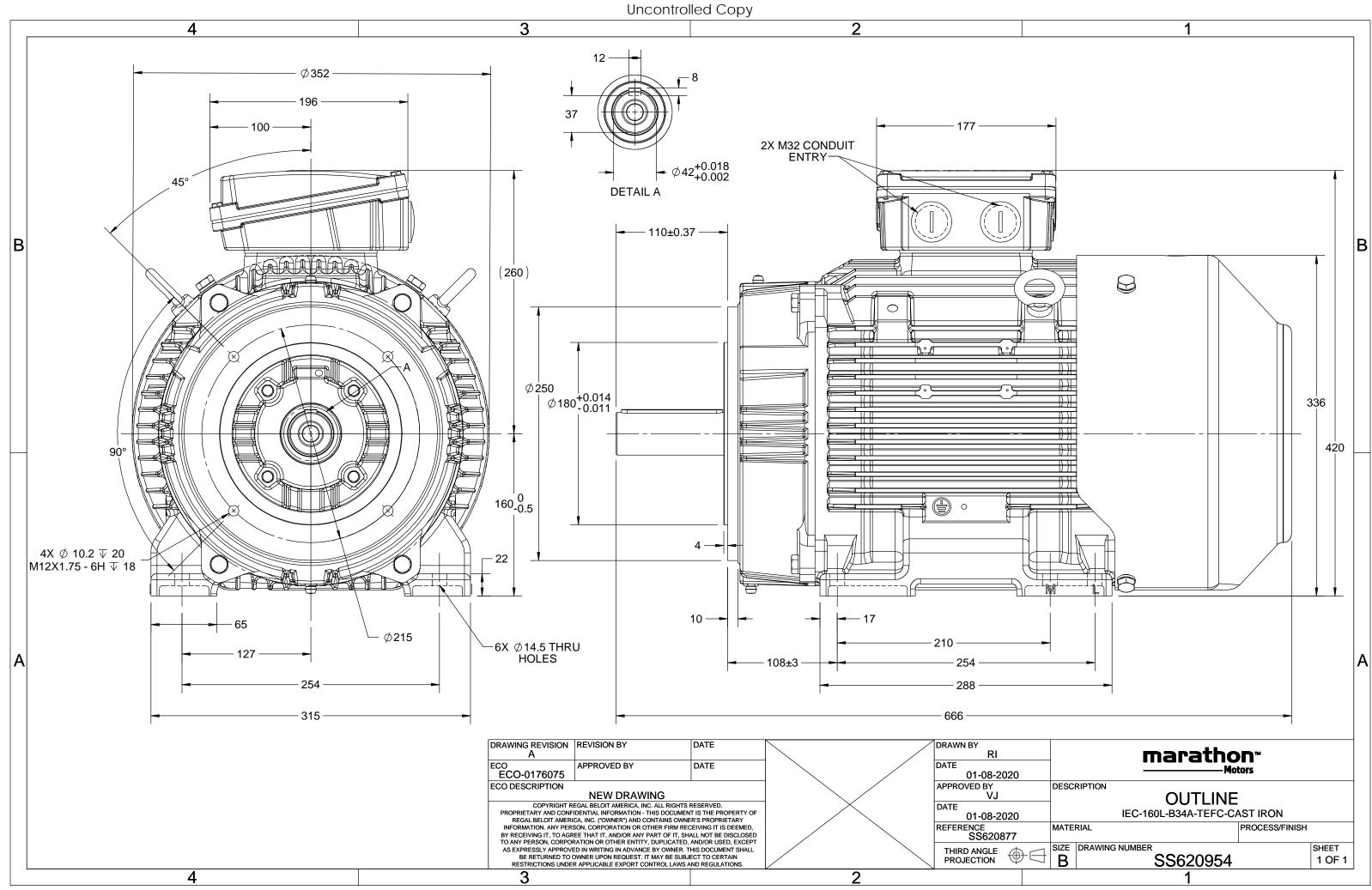
Nameplate Specifications

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

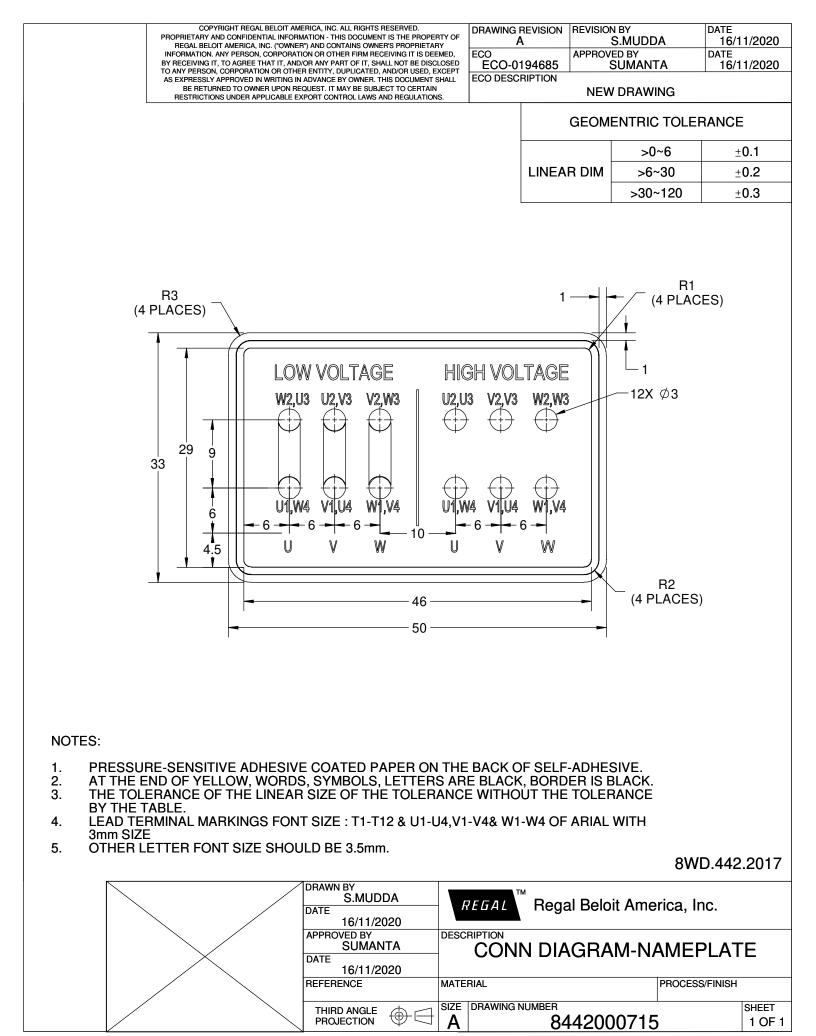
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.5 Ohms	Mounting	B3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Shaft Diameter	42.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620954	Connection Drawing	8442000715

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									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-3311 DATA VOLTS:			
CUSTOMER: ORDER #:				RTIFICATION DATA SI	CUSTOMER P.O. #: REFERENCE MODEL #: TCA18P1AE251GAA009							
CONN. DIA OUTLINE: WINDING: SPEED:		8442000677 SS620954 IE3L1602203	NONE		YPICAL	MOTOR PERFORMA		CAT #: MER PART #: MOUNTING:				
HP	кw	SYNC RPM	FL	. RPM		FRAME		LOSURE	ТҮРЕ	KVA C	ODE	DESIGN
25	18.50	3600	:	3550		160L	TEFC		TCA 160LA02	н	H N	
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	56/28.1	&53.5/26.7		LINE OR INVERTER	C	ONT	F	1.15	40	3300
	F.L. EFF	F 91.7 3/4 LD EFF 91.7		1/2 LD EFF		91.8 GTD EFF		E		ГҮРЕ		
	F.L. PF		3/4 LD PF			1/2 LD EFF		90.5		SQ CAGE IN		
							80.0					
F.L.	. TORQUE	LR AMPS @	460 V	160 V L.R.		TORQUE	B.D. TORG		QUE	F.L. RISI	E (° C)	
37.0	LB-FT	217		77.1	LB-FT	208%	114	LB-FT	308%	80		
SOUND	PRESSURE @ 3										1	
SOUND	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	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		169	KG.
			`		*** SU	PPLEMENTAL INFORMA						
DE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE		SEVERE DUTY	HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT	
	LANGE-215	STANDARD	B3	HORIZO		NO		IONE	NO	NONE	BLUE (ENAMEL)	
		1				1						,
DE	EARINGS ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	CIAL ODE	SHAFT	MATERIAL	FRAME	IATERIAL
BALL 6309	BALL 6209	POLYREX EM	STAN	DARD IEC	NONE		Ν	IONE	1045 HOT R	OLLED (C-204)	CAST IRON	
											SPACE	HEATERS
THERMOSTATS		PROTECTORS		G RTD's		BRG RTD's	THERMISTORS		CONTROL			
	NONE	NOT	N	IONE		NONE	N	IONE	F/	ALSE	1	IA
R1 (ohms/ph)		R2 (ohms/ph)	X1 (c	hms/ph)		X2 (ohms/ph)	Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
0.318		0.125		0.635			29.783		0.150		ODE	
* O T								INV. HF	SPEED RANGE:	CONSTANT 2:1/VA NONE	RIABLE 10:1	
E S							ENCODER: NONE NONE NONE NONE PPR					PPR
	PREPARED BY: DATE:	11/27/2020						BRAKE: FT-LB:	NONE	NON	IE .	
											HZ:	
FORM: 35	31 REV_4	2/27/06				-	UL:		CONST UL REC			

REGAL







									P.O. BOX 8003				
								WAUSAU, WI 54401-8003					
									PH. 715-675-3	311			
										DATA VOLTS:	460		
										DATA VOLIS.	400		
				CEI	RTIFICA	TION DA	TA SHE	EET					
CUSTOM								MER P.O. #:				_	
ORDER #		8442000677				R	EFERENC		TCA18P1AE25			-	
		SS620954											
WINDING		IE3L1602203	3 NONE	1			MOUNTING: F3						
SPEED:													
			T	YPICAL	мото	r perfo	RMAN	CE DATA					
НР	кw	SYNC RPM	FLR	DM	6	RAME	ENCLOSURE		ТҮРЕ	KVA CO		DESIGN	
		STINC NPM		FIN		NAIVIE	ENC	LUSUNE	ITPE	KVA CODE		DESIGN	
25	18.7	3600	355	50	1	60L	Т	EFC	TCA 160LA02	Н		N	
PH	HZ	VOLTS	AM	PS	STAF	RT TYPE		υτγ	INSL	S.F.	AMB	ELEV.	
3	60/50	230/460#200/400	56/28.1&5	3.5/26.7	LINE OR	INVERTER	C	ONT	F	1.15	40	3300	
									1				
	F.L. EFF F.L. PF	91.7 90.0	3/4 LD EFF 3/4 LD PF		1/2 LD EFF		91.8 80.0	GTD EFF 90.5		ELECT. TY			
	F.L. PF	90.0	3/4 LD PF	87.0		1/2 LD PF	80.0	90.5		SQ GAGE INV I	RATED		
F.L. 1	ORQUE	LR AMPS @	R AMPS @ 460 V		L.R. TORG	L.R. TORQUE		B.D. TOR	QUE F.L. RISI		(° C)		
37.0	LB-FT	217	77.1		LB-FT 208%		114 LB-FT		308%	80			
				1							1	1	
	3 FT.	POWER	ROTOF		MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT		
75	dBA	84 dBA	1.90	LB-FT ²	1.90 LB-FT ²		7 SEC.		2		169	LB.	
				*** SI		NTAL INFO	RMATI	ON ***					
		ODE BRACKET	MOUNT			TOR SEVERE		ARDOUS					
	CKET TYPE	TYPE	TYPE		TATION	DUTY	LOCATION		DRIP COVER	SCREENS	PAINT		
FT-FLA	NGE-215	STANDARD	B34	HORIZ	ZONTAL	NO	N	IONE	NO	NONE	BLUE -	RAL 5014	
BEA	RINGS		1		1				1		1		
DE	ODE	GREASE	SHAFT	TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL		
BALL	BALL	POLYREX EM	STANDA		NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON		
6309	6209	FOLTHEREM	STANDA			ONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON		
			1		1				1				
TUEDMOOTATO		PROTECTORS	WDG		BRG RTD's		THERMISTORS		CONTROL		SPACE HEATERS		
THERMOSTATS NONE		NOT	WDG RTD's NONE		NONE		NONE		FALSE		NA		
			1						.,.		· ·		
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohr	X1 (ohms/ph)		X2 (ohms/ph)		ohms/ph)	VIBRATION (in/sec)		FLOAT		
0	.318	0.125	0.63	35	0.703		29.783		0.090		ODE		
*													
N								INVER	TER TORQUE:	CONSTANT 2	1/VARIAB	I E 10·1	
0								PEED RANGE:					
Т													
E								ENCODER:	NONE				
S						NONE							
								NONE BRAKE:	NONE		NONE	. PPK	
PRE	PREPARED BY:								IONE	NON	E		
	DATE: 4/13/2020						FT-LB: NA						
							VOLTAGE: NONE HZ:						
	RM: 3531 REV_4 2/27/06							UL: V - LI,ME-INS,CONST UL REC					

REGAL



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 : TCA18P1AE251GAA009

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

Catalog No: R939

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