PRODUCT INFORMATION PACKET



Model No: TCA1P13AE251GAA009

Catalog No: R917

TerraMAX® Cast Iron Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

100L Frame, TEFC





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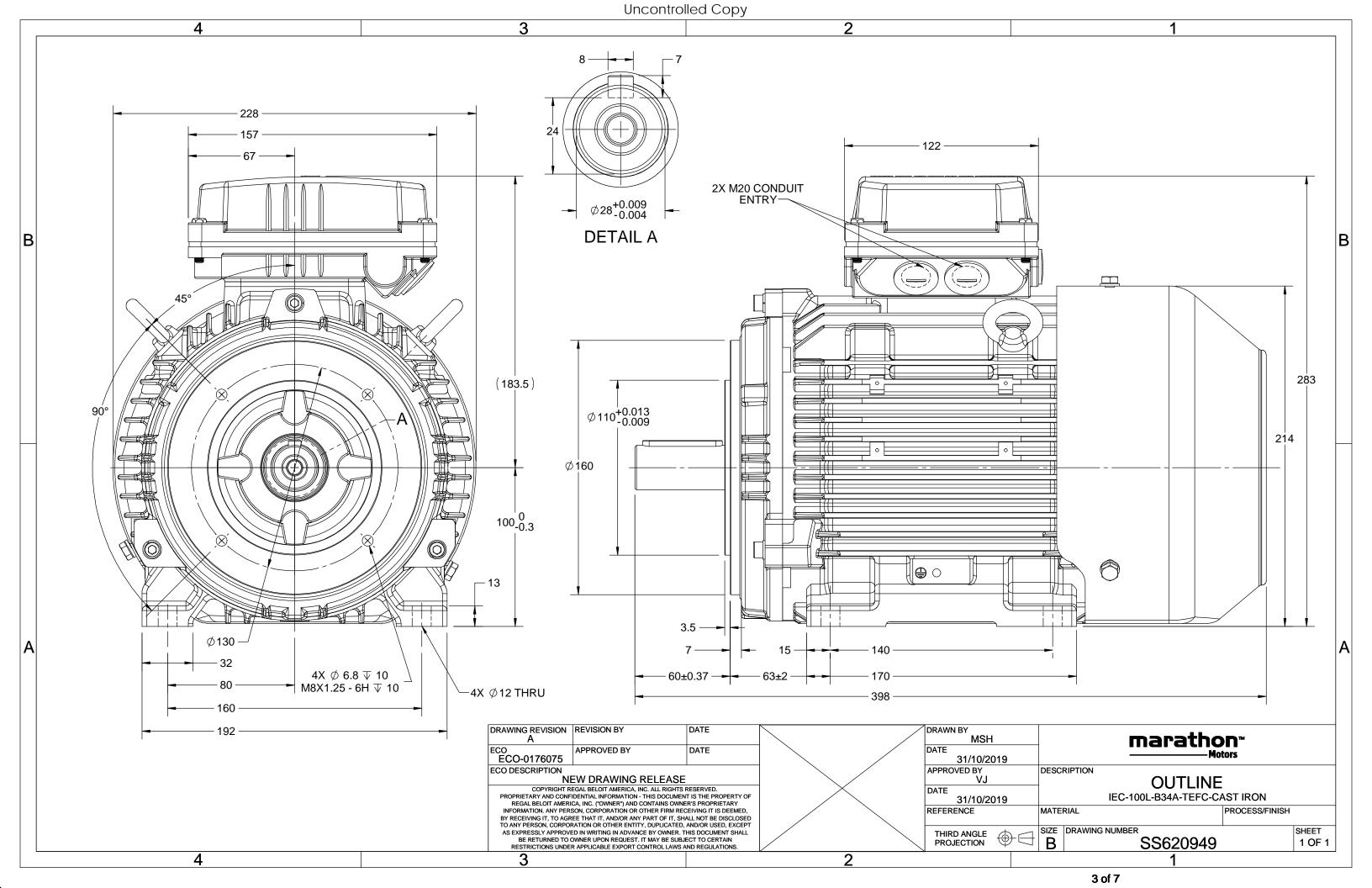
Nameplate Specifications

Phase	3	Output HP	1.50 & 1 Hp
Output KW	1.1 & 0.75 kW	Voltage	230/460 & 200/400 V
Speed	1175 & 920 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.5 & 78.9 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	4.4/2.2 & 8.4/4.2 A	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	К
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

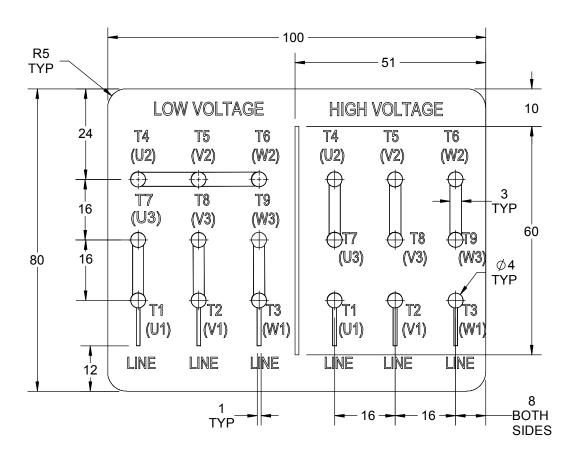
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	9.64 Ohms	Mounting	В3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Shaft Diameter	28.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620949	Connection Drawing	8442000675

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GENERAL TOLERANCE							
LINEAR DIM	>0~6	±0.1					
	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
- 2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
- 3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
- 4. LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

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DRAWING REVISION B	REVISION BY NIV	DATE 05/03/2019		DRAWN BY NIV	REGAL Regal Beloit Ame	orioo Ino		
ECO-0162986	APPROVED BY JAY	DATE 05/03/2019		DATE 29/01/2019	REGAL Regal Beloit Ame	erica, iric.		
ECO DESCRIPTION] \ /	APPROVED BY	DESCRIPTION			
UPDATED DRAWING			JAY	CONNECTION D	IAGRAM			
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REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY			29/01/2019	3 22/100 31/11/ 33/11				
INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,			REFERENCE	MATERIAL	PROCESS/FINISH			
	EE THAT IT, AND/OR ANY PART OF IT, SH							
	ATION OR OTHER ENTITY, DUPLICATED O IN WRITING IN ADVANCE BY OWNER.			THIRD ANGLE	SIZE DRAWING NUMBER	SHEET		
BE RETURNED TO C	OWNER UPON REQUEST. IT MAY BE SUB	JECT TO CERTAIN		PROJECTION	A 8442000675			
RESTRICTIONS UNDER	R APPLICABLE EXPORT CONTROL LAWS	AND REGULATIONS.	V	V	<u> </u>	۱ ۵۰		



TerraMAX



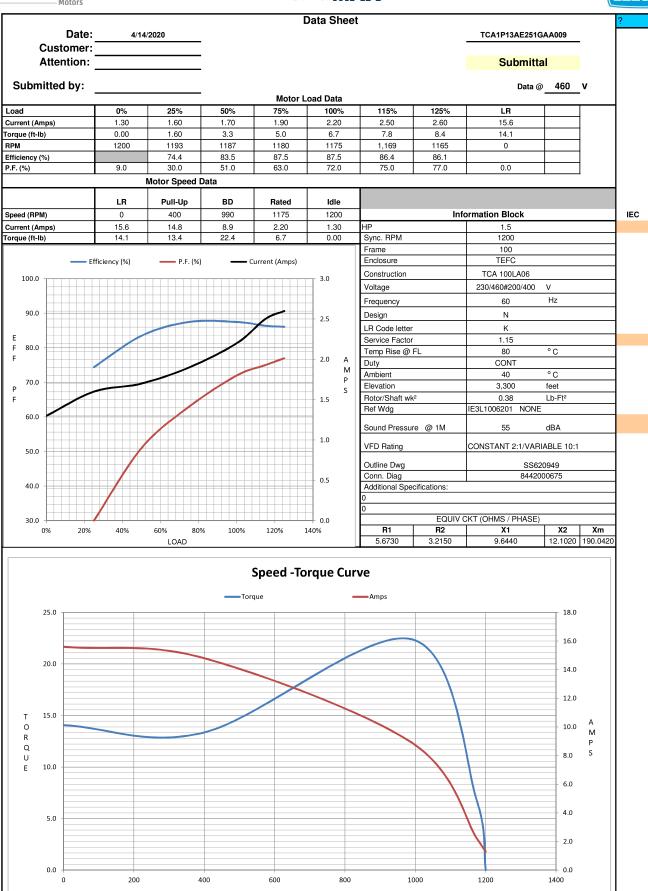
									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331			
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA S	HEET					
CUSTOMER: ORDER #: CONN. DIAGRAM: 8442000675 OUTLINE: \$5620949		8442000675 \$\$620949					CUSTOMER P.O. #: REFERENCE MODEL #: CAT #: CUSTOMER PART #:		#: TCA1P13AE251GAA009 #: R917			_
WINDING: SPEED:		IE3L1006201	NONE	1	VDICAL	MOTOR REPEORMA	NCE D	MOUNTING:	F3			_
НР	ĸw	SYNC RPM	FL	RPM	YPICAL	MOTOR PERFORMA		LOSURE	TYPE	KVA C	ODE	DESIGN
1.5	1.1	1200	1	175	100L		TEFC		TCA 100LA06	K		N
PH	HZ	VOLTS		MPS		START TYPE		DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50 F.L. EFF	230/460#200/400	4.4/2.2	2&8.4/4.2 87.5		LINE OR INVERTER 1/2 LD EFF	83.5	GTD EFF	F	1.15	40 TYPE	3300
	F.L. PF		3/4 LD PF	63.0		1/2 LD PF	51.0	85.6		SQ CAGE IN		
	TORQUE LB-FT	LR AMPS @ 15.6	460 V	14.1	L.R. TORQUE LB-FT 210%		B.D. TORQUE 22.4 LB-FT 334%			F.L. RISE (° C)		
SOUND	PRESSURE @ 3 FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	STALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
55	dBA	64 dBA	0.38	LB-FT ²		LB-FT ²	15	SEC.		2	40	KG.
	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE			HAZARDOUS LOCATION		DRIP COVER			AINT
	LANGE-130	STANDARD	В3	HORIZO	NTAL	NO	١	IONE	NO	NONE	BLUE	(ENAMEL)
DE BALL	ODE BALL	GREASE POLYREX EM		DARD IEC	SPECIAL DE NONE			NONE	SHAFT MATERIAL 1045 HOT ROLLED (C-204)		FRAME MATERIAL CAST IRON	
6206	6206										SPACE	HEATERS
THERMOSTATS PROTECTORS NONE NOT			MONE BRG RTD'S NONE		THERMISTORS NONE		CONTROL FALSE		NA NA			
R1	R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph) 5.673 3.215 9.644			X2 (ohms/ph) 12.102						L OAT ODE		
N O T									/ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAI NONE	RIABLE 10:1	
E S							ENCODER: NONE NONE NONE NONE NONE NONE					E PPR
	PREPARED BY: DATE:	11/27/2020					BRAKE: NONE NONE NONE					
FORM: 35	531 REV_4	2/27/06					UL:	VOLTAGE: V - LI,ME-INS	CONST UL REC	UNE		HZ:











REGAL

RPM



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: TCA1P13AE251GAA009

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

Catalog No : R917

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. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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