PRODUCT INFORMATION PACKET



Model No: TCA0032AE271GAA009

Catalog No: R652

TerraMAX® Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

100L Frame, TEFC





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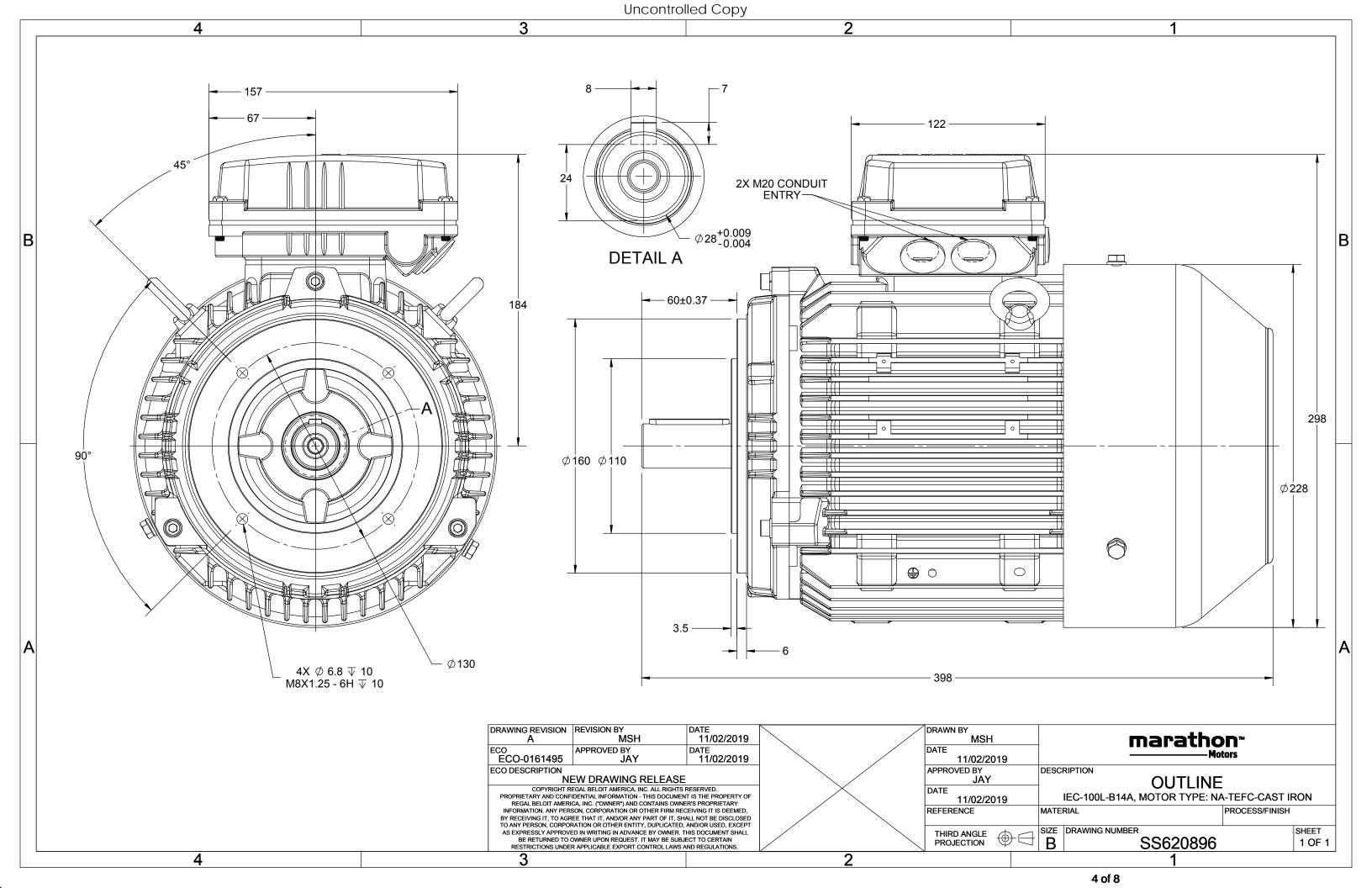
Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	1765 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 86.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	10.4/5.2 & 9.2/4.6 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	L
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

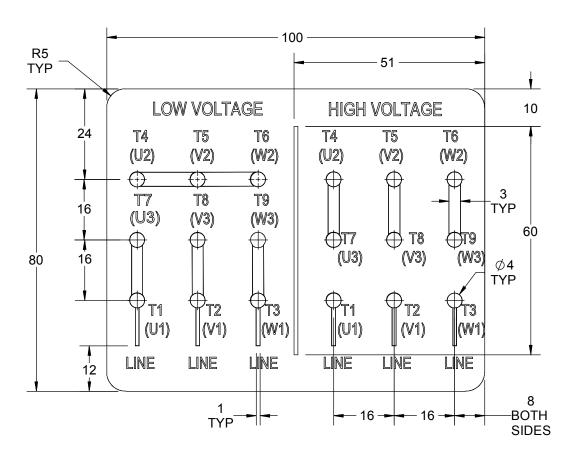
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	3.18 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	15.67 in
Frame Length	7.87 in	Shaft Diameter	1.102 in
Shaft Extension	2.36 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	SS620896	Connection Drawing	8442000675

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GENER	AL TOLEF	RANCE
	>0~6	±0.1
LINEAR	>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[™]



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ORDER #:							REFERENC		TCA0032AE271G			
CONN. DI	AGRAM:	8442000675						CAT #:	F	1652		
OUTLINE:		SS620896					CUSTO	MER PART #:				
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WINDING:		IE3L1004202	NONE	1				MOUNTING:	F3			
SPEED:												
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				- !!	FICAL	MICTOR PERFORMA	NCE DA	IA				
HP	KW	SYNC RPM	FL	RPM		FRAME	ENC	OSURE	TYPE	KVA CO	DDE	DESIGN
4	3.0	1800		1765		100L	Т	EFC	TCA 100LB04	L		N
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PH	HZ	VOLTS		MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	10.4/5	.2&9.2/4.6		INE OR INVERTER		ONT	F	1.15	40	3300
٣	1 55/55	200,100#200/400	10.4/0	30.270		OIT INTERNIEN			' '	10	. ~	5500
	F.L. EFF	89.5	3/4 LD EFF	89.5		1/2 LD EFF	86.3	GTD EFF		ELECT. T	YPE	
	F.L. PF	81.0	3/4 LD PF	75.0		1/2 LD PF	64.0	87.9		SQ CAGE INV	'RATED	
		01.0	0,125	70.0		25.11	01.0	07.0		00,07102 1111	TOTTLE	
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TORG	QUE	F.L. RISE	(° C)	
11.9	LB-FT	48.9		35.4 L	_B-FT	297%	41.8	LB-FT	351%	80	r` ´	
11.5	LD-I I	40.5		33.4 L	-0-1 1	29170	41.0	LD-I I	33170	00		
SOUND	PRESSURE @ 3											
	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	0.34	LB-FT ²	0.34	LB-FT ²	10	SEC.		2	48	KG.
- 55	uba	OT UDA	, 0.04		0.04		10	OLO.			40	
					*** SII	PPLEMENTAL INFORMA	TION ***					
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			MOUNT					KDOUS				
DE BR	ACKET TYPE	ODE BRACKET TYPE		MOTOR ORIEN		SEVERE DUTY	HAZA		DRIP COVER	SCREENS	PΔ	INT
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEN	NTATION	SEVERE DUTY	HAZA LOC	ATION	DRIP COVER	SCREENS		INT
	ACKET TYPE LANGE-130	ODE BRACKET TYPE STANDARD		MOTOR ORIEN HORIZON	NTATION	SEVERE DUTY NO	HAZA LOC		DRIP COVER	SCREENS NONE		INT ENAMEL)
			TYPE		NTATION		HAZA LOC	ATION				
FT-F	FLANGE-130	STANDARD	ROUND	HORIZON	NTATION	NO	HAZA LOC N	ONE	NO	NONE	BLUE (E	ENAMEL)
FT-F	EARINGS		ROUND		NTATION		HAZA LOC N	ATION				ENAMEL)
FT-F BI DE	EARINGS ODE	STANDARD	ROUND	HORIZON	NTATION	NO	HAZA LOC N	ONE	NO	NONE	BLUE (E	ENAMEL)
FT-F	EARINGS	STANDARD GREASE	TYPE ROUND SHA	HORIZON FT TYPE	NTATION	NO SPECIAL DE	HAZA LOC N SPEC	ONE	NO SHAFT	NONE	BLUE (E	NAMEL)
FT-F BI DE BALL	EARINGS ODE BALL	STANDARD	TYPE ROUND SHA	HORIZON	NTATION	NO	HAZA LOC N SPEC	ONE	NO SHAFT	NONE	BLUE (E	ENAMEL)
FT-F BI DE	EARINGS ODE	STANDARD GREASE	TYPE ROUND SHA	HORIZON FT TYPE	NTATION	NO SPECIAL DE	HAZA LOC N SPEC	ONE	NO SHAFT	NONE	BLUE (E	NAMEL)
FT-F BI DE BALL	EARINGS ODE BALL	STANDARD GREASE	TYPE ROUND SHA	HORIZON FT TYPE	NTATION	NO SPECIAL DE	HAZA LOC N SPEC	ONE	NO SHAFT	NONE	BLUE (E	NAMEL)
FT-F BI DE BALL	EARINGS ODE BALL	STANDARD GREASE	TYPE ROUND SHA	HORIZON FT TYPE	NTATION	NO SPECIAL DE	HAZA LOC N SPEC	ONE	NO SHAFT	NONE	FRAME N CAST	NAMEL) IATERIAL IRON
B DE BALL 6206	EARINGS ODE BALL 6206	STANDARD GREASE POLYREX EM	TYPE ROUND SHAI	HORIZON FT TYPE DARD IEC	NTATION	NO SPECIAL DE NONE	HAZA LOC N SPEC	ONE IAL ODE ONE	NO SHAFT 1045 HOT R	NONE MATERIAL OLLED (C-204)	BLUE (E	NAMEL)
B DE BALL 6206	EARINGS ODE BALL 6206 RMOSTATS	STANDARD GREASE POLYREX EM PROTECTORS	TYPE ROUND SHAI STANI	HORIZON FT TYPE DARD IEC G RTD's	NTATION	NO SPECIAL DE NONE BRG RTD's	HAZA LOC N SPEC	ATION ONE HAL ODE ONE	NO SHAFT 1045 HOT R	MATERIAL OLLED (C-204)	FRAME N CAST SPACE	IATERIAL IRON HEATERS
B DE BALL 6206	EARINGS ODE BALL 6206	STANDARD GREASE POLYREX EM	TYPE ROUND SHAI STANI	HORIZON FT TYPE DARD IEC	NTATION	NO SPECIAL DE NONE	HAZA LOC N SPEC	ONE IAL ODE ONE	NO SHAFT 1045 HOT R	NONE MATERIAL OLLED (C-204)	FRAME N CAST SPACE	NAMEL) IATERIAL IRON
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BI DE BALL 6206	EARINGS ODE BALL 6206 RMOSTATS NONE (ohms/ph)	STANDARD GREASE POLYREX EM PROTECTORS NOT R2 (ohms/ph)	SHAIL STANI	HORIZON FT TYPE DARD IEC G RTD'S IONE Debms/ph)	NTATION	NO SPECIAL DE NONE BRG RTD'S NONE X2 (ohms/ph)	N SPEC	MISTORS ONE whens/ph)	NO SHAFT 1045 HOT R COI	NONE MATERIAL OLLED (C-204) NTROL ALSE ON (in/sec)	FRAME IN CAST	IATERIAL IRON HEATERS
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FT-F BI DE BALL 6206 THE R1 * N O T E S	EARINGE ODE BALL 6206 RMOSTATS NONE (ohms/ph) 1.986	STANDARD GREASE POLYREX EM PROTECTORS NOT R2 (ohms/ph)	SHAIL STANI	HORIZON FT TYPE DARD IEC G RTD'S IONE Debms/ph)	NTATION	NO SPECIAL DE NONE BRG RTD'S NONE X2 (ohms/ph)	HAZZ LOC SPEC N THER Xm (c	IATION ONE IAL ODE ONE MISTORS ONE INVI INV. HF ENCODER: NONE NONE BRAKE: FT-LB:	NO SHAFT 1045 HOT R COI F. VIBRATI 0 VIBRATI 0 ERTER TORQUE: > SPEED RANGE: NONE	NONE MATERIAL OLLED (C-204) NTROL ALSE ON (in/sec) .150 CONSTANT 2:1/VAF NONE NON	SPACE SPACE NONE	HATERIAL HEATERS IA DAT DE PPR
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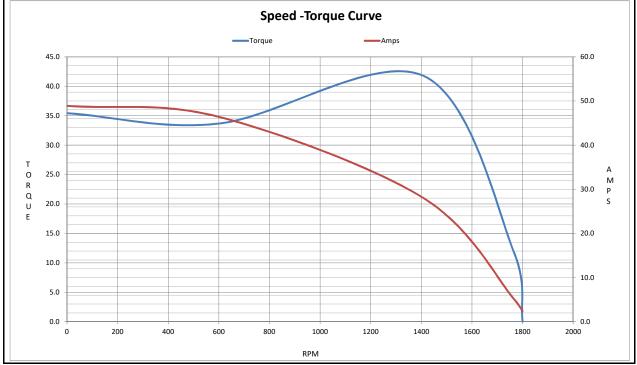








Data Sheet Date: 5/30/2019 TCA0032AE271GAA009 **Customer:** Attention: **Submittal** Fareeda Dudekula Submitted by: Data @ 460 V **Motor Load Data** 0% 25% 50% 75% 100% 115% 125% LR Load Current (Amps) 2.40 2.90 3.4 4.3 5.2 5.8 6.3 48.9 0.00 8.9 11.9 13.8 15.0 35.4 Torque (ft-lb) 2.90 5.9 RPM 1800 1791 1782 1773 1765 1.757 1753 0 Efficiency (%) 78.9 86.3 89.5 89.5 87.9 87.6 P.F. (%) 10.0 41.0 64.0 75.0 81.0 84.0 85.0 63.4 **Motor Speed Data** LR Pull-Up BD Rated 600 1765 1800 Information Block IEC Speed (RPM) 0 1406 Current (Amps) 48.9 46.4 28.1 5.2 2.40 0.00 Sync. RPM Torque (ft-lb) 1800 35.4 33.7 41.8 11.9 100 Efficiency (%) - Current (Amps) Enclosure TEFC P.F. (%) Construction TCA 100LB04 100.0 7.0 Voltage 230/460#200/400 ٧ Hz Frequency 60 90.0 6.0 Design Ν LR Code letter Service Factor 1.15 80.0 5.0 Temp Rise @ FL °C 80 Duty CONT °C Ambient 40 70.0 4.0 Elevation 3.300 feet Rotor/Shaft wk2 0.34 Lb-Ft² Ref Wdg IE3L1004202 NONE 60.0 3.0 Sound Pressure @ 1M dBA VFD Rating CONSTANT 2:1/VARIABLE 10:1 50.0 2.0 Outline Dwg SS620896 Conn. Diag 8442000675 40.0 1.0 Additional Specifications: EQUIV CKT (OHMS / PHASE) 30.0 0.0 0% 40% 60% 100% 120% 140% R1 R2 X1 X2 Χm 5.7440 108.7080 LOAD 1.9860 1.1350 3.1910 **Speed -Torque Curve** -Torque 45.0 60.0 40.0 50.0 35.0





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: TCA0032AE271GAA009

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

Catalog No : R652
Rework No : N/A

Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

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EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

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Created on 09/01/2022

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