## PRODUCT INFORMATION PACKET



Model No: TCA0222AP211GAA009 Catalog No: R443 Cast Iron Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 180L Frame, TEFC



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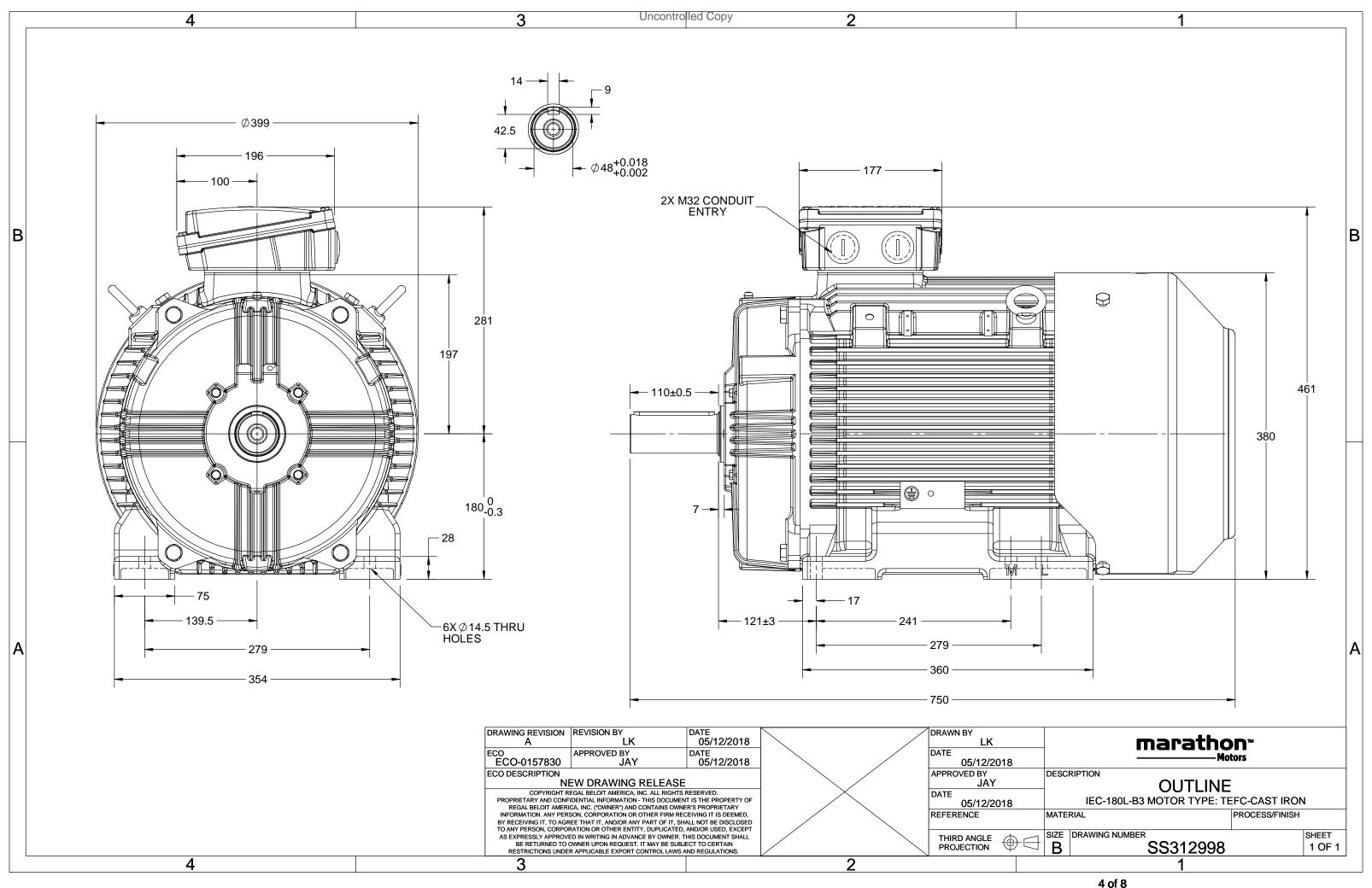
## Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	60 Hz	Voltage	575 V
Current	28.8 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	Н
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	N
CE	Υ	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

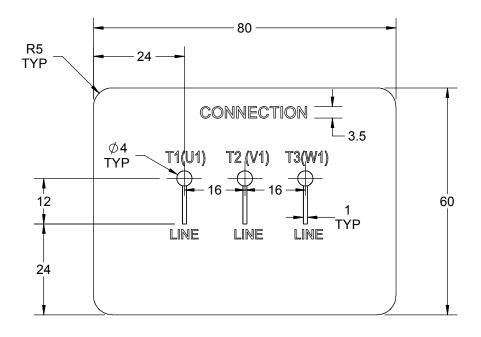
## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	4	Rotation	Reversible		
Resistance Main	.3 Ohms	Mounting	В3		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	29.53 in		
Frame Length	14.41 in	Shaft Diameter	1.890 in		
Shaft Extension	4.33 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS312998	Connection Drawing	8442000685		

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GENERAL TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>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-T2 T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

0.011.2112									
DRAWING REVISION A	REVISION BY A. KEETHA	DATE 25/07/2019			DRAWN BY A. KEETHA		Regal Beloit Ame	rico Inc	
ECO ECO-0171114	APPROVED BY SN	DATE 25/07/2019			DATE 24/07/2019		Regal Beloit Ame	ilica, ilic.	
ECO DESCRIPTION			1		APPROVED BY	DESC	RIPTION		
NEW DRAWING RELEASE				SN		CONNECTION D	IAGRAM		
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PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY				24/07/2019		3 LEAD CONNECT	ION		
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	RATION OR OTHER ENTITY, DUPLICAT				<u> </u>	1 SIZE	DRAWING NUMBER		OLIEET
	ED IN WRITING IN ADVANCE BY OWNE				THIRD ANGLE	1   3125			SHEET
	OWNER UPON REQUEST. IT MAY BE S		/		PROJECTION	⊺∣ Δ	8442000685	5	1 OF 1
RESTRICTIONS UNDE	R APPLICABLE EXPORT CONTROL LAV	VS AND REGULATIONS.	<b>/</b>		J	·   <b>/</b>	0 <del>11</del> 200000	,	. 🗸 .



# **TerraMAX**<sup>™</sup>



l									P.O. BOX 8003			
							WAUSAU, WI 54401-8003					
							PH. 715-675-3311					
									DATA VOLTS:	575		
					CE	RTIFICATION DATA S	HEEI					
сиѕтом	ED.						CHET	OMER P.O. #:				
				_								
ORDER #	:						REFEREN	CE MODEL #:	TCA0222AP211G	AA009		
CONN. DIAGRAM: 8442000685								CAT #:	F	3443		=
OUTLINE		SS312998					CUSTOMER PART #:					
							CUSIO					
WINDING	:	IE3L1804202	3				MOUNTING:	F3				
SPEED:												
loi EED.		-		_	VD1041							
	TYPICAL MOTOR PERFORMANCE DATA											
<b>І</b> нр	кw	SYNC RPM	FI	_ RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN
	1											
30	22.4	1800		1780		180L		TEFC	TCA 180LA04	н		N
30	22.4	1800		1780		IOUL		IEFC	TCA 180LA04	п		IN .
PH	HZ	VOLTS	1	MPS		START TYPE		OUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60								F	1.15	40	
3	60	575		28.8 LINE OR INVERTER				CONT	F	1.15	40	3300
	F.L. EFF	93.6	3/4 LD EFF	93.6		1/2 LD EFF	93.0	GTD EFF		ELECT. T	YPE	
									t			
	F.L. PF	83.0	3/4 LD PF	77.0		1/2 LD PF	66.0	92.6		SQ CAGE INV	RATED	
E 1	TORQUE	LR AMPS @	460 V		I P	TORQUE		B.D. TOR	QUE F.L. RISE (° C)			
			400 V								( 0)	
88.6	LB-FT	209		201	LB-FT	227%	269	LB-FT	304%	80		
SOUND	PRESSURE @ 3											
	FT.	SOUND POWER	POT	OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	CVEE	STALL TIME	STAD	TS/HOLIP	APROX.	MOTOR WGT
									STARTS/HOUR			
68	dBA	77 dBA	5.9	LB-FT <sup>2</sup>	5.9	LB-FT <sup>2</sup>	12	SEC.		2	250	KG.
			•									
					*** 011	PPLEMENTAL INFORMA	TION ***					
			MOUNT		- 30	PPLEINEN I AL INFORINA						
								ARDOUS				
	RACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE				CATION	DRIP COVER SCREENS		PAINT	
S.	TANDARD	STANDARD	B3	HORIZON	HORIZONTAL NO		1	NONE	NO NONE		BLUE (ENAMEL)	
		T										
В	EARINGS	GREASE	SHV	FT TYPE		SPECIAL DE	SDE	CIAL ODE	SHAFT	MATERIAL	EDAME	MATERIAL
DE	ODE	OKEAGE	0		SPECIAL DE		SPECIAL OBE		SHAFT WATERIAL		FRAME MATERIAL	
BALL	BALL										+	
		POLYREX EM	STAN	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6311	6211											
		1										
I _			l .								SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS	COI	NTROL		
	NONE	NOT	l 1	IONE		NONE	1	NONE	F/	ALSE	١ ١	AV
		-				-						
	(.b(.b)	D0 (11 (11)		t		V0 (-1(-1-)	v ·		\unc	ON (* - ( )		
R1	(ohms/ph)	R2 (ohms/ph)		ohms/ph) X2 (ohms/ph)				ohms/ph)	VIBRATION (in/sec)		FLOAT	
	0.461	0.231	1	1.223 1.847			4	0.489	0.150			DE
		!										
- *												
*												
N												
								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
											RIABLE 10:1	
0									ERTER TORQUE: P SPEED RANGE:		RIABLE 10:1	
											RIABLE 10:1	
О Т								INV. HI	SPEED RANGE:		RIABLE 10:1	
O T E								INV. HI	SPEED RANGE:		RIABLE 10:1	
O T E S								INV. HI	SPEED RANGE:		RIABLE 10:1	
O T E								INV. HI	SPEED RANGE:		RIABLE 10:1	PPR
O T E S								ENCODER: NONE NONE	P SPEED RANGE:			PPR
O T E S								ENCODER: NONE NONE BRAKE:	NONE NONE	NONE	NONE	PPR
O T E S	PREPARED BY:							ENCODER: NONE NONE BRAKE:	P SPEED RANGE:		NONE	PPR
O T E S								ENCODER: NONE NONE BRAKE:	NONE  NONE  NONE	NONE	NONE	PPR
O T E S	PREPARED BY: DATE:	11/16/2020						ENCODER: NONE NONE BRAKE: FT-LB:	NONE  NONE  NONE	NONE NON NA	NONE	
O T E S								ENCODER: NONE NONE BRAKE: FT-LB: VOLTAGE:	NONE  NONE  NONE	NONE	NONE	PPR Hz:





150.0

100.0

50.0

0.0

0

200

400

600

800

1000

RPM

1200







100.0

50.0

0.0

2000

1400

1600

1800



# **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: TCA0222AP211GAA009

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

Catalog No: R443 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:

Authorized Representative in the Community:

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

**C**€ 22