

PRODUCT INFORMATION PACKET

Model No: TCA0113AP211GAA009

Catalog No: R435

Cast Iron Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 160L Frame, TEFC



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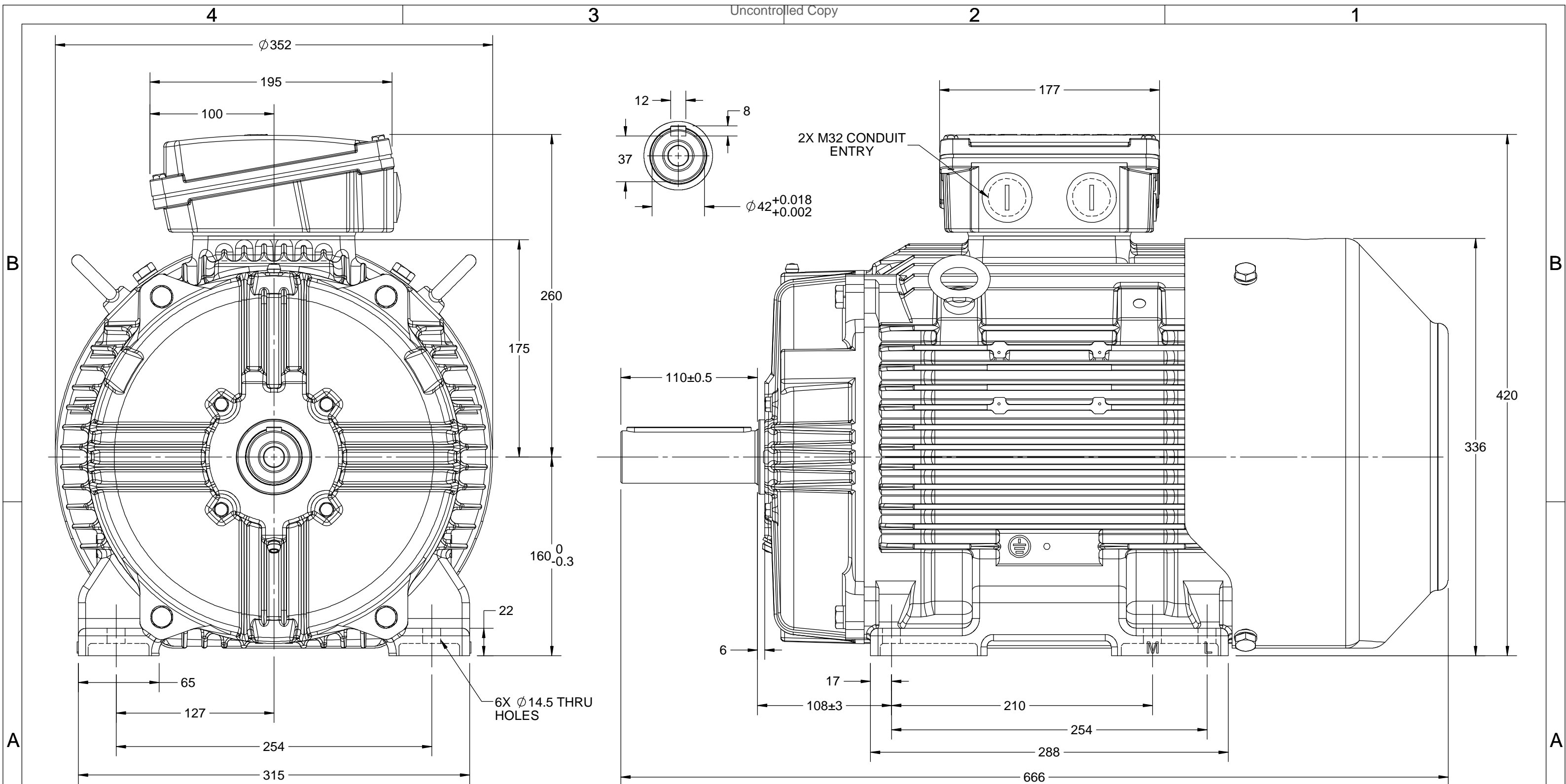
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	60 Hz	Voltage	575 V
Current	15.3 A	Speed	1180 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	H
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
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

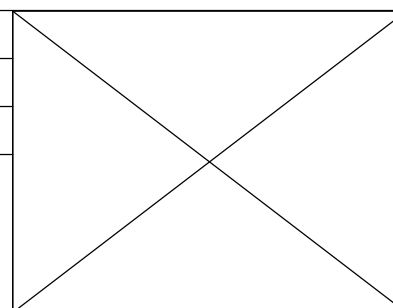
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.59 Ohms	Mounting	B3
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	1.650 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Connection Drawing	8442000685	Outline Drawing	SS208564

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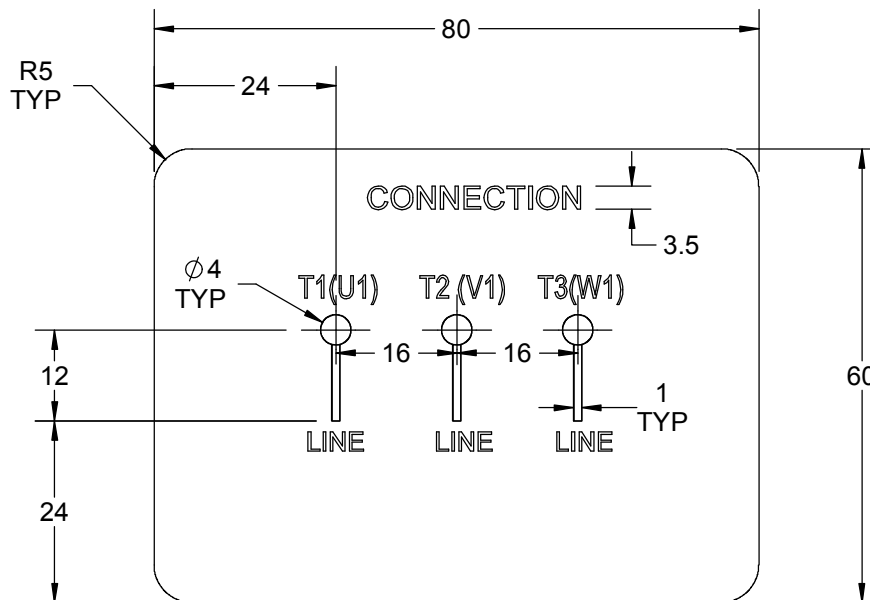
DRAWING REVISION A	REVISION BY LK	DATE 05/12/2018
ECO ECO-0157830	APPROVED BY JAY	DATE 05/12/2018
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DRAWN BY LK
DATE 05/12/2018
APPROVED BY JAY
DATE 05/12/2018
REFERENCE
THIRD ANGLE PROJECTION

marathon™ Motors	
OUTLINE	
IEC-160L-B3 MTG. MOTOR TYPE : TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS208564
SHEET 1 OF 1	

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-T2 - T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

DRAWING REVISION A	REVISION BY A. KEETHA	DATE 25/07/2019		DRAWN BY A. KEETHA	Regal Beloit America, Inc.	
ECO ECO-0171114	APPROVED BY SN	DATE 25/07/2019		DATE 24/07/2019		
ECO DESCRIPTION NEW DRAWING RELEASE				APPROVED BY SN	DESCRIPTION CONNECTION DIAGRAM 3 LEAD CONNECTION	
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				REFERENCE	THIRD ANGLE PROJECTION	SIZE A



DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 8442000677
 OUTLINE: SS208564
 WINDING: IE3L1606202 NONE 3

REFERENCE MODEL #: TCA0113AP211GAA009
 CAT #: R435

MOUNTING: F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.0	1200	1180	160L	TEFC	TFN	H	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	15.3	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	89.6	GTD EFF	ELECT. TYPE
F.L. PF	79.0	3/4 LD PF	72.0	1/2 LD PF	62.0	90.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
66.8 LB-FT	96.9	141 LB-FT 211%	182 LB-FT 272%	80

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR
68 dBA	77 dBA	4.3 LB-FT²	4.3 LB-FT²	15 SEC.	2	172 KG.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	B3	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6309	6209						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)
0.9234375	0.646875	2.815625	4.246875	69.665625	0.150

* N O T E S *	If Inverter equals NONE, contact factory for further information					
	INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE NONE NONE PPR					

PREPARED BY:	BRAKE: NONE				
DATE: 9/22/2021	NONE NONE				
	FT-LB: NA				
	VOLTAGE: NONE HZ:				

FORM: 3531 REV.4 2/27/06
 ** Subject to change without notice.

Data Sheet

Date: 7/19/2019
Customer: _____
Attention: _____
Submitted by: SHERYL KUEHMICHEL

TCA0113AP211GAA009

Submittal

Data @ 575 V

Motor Load Data

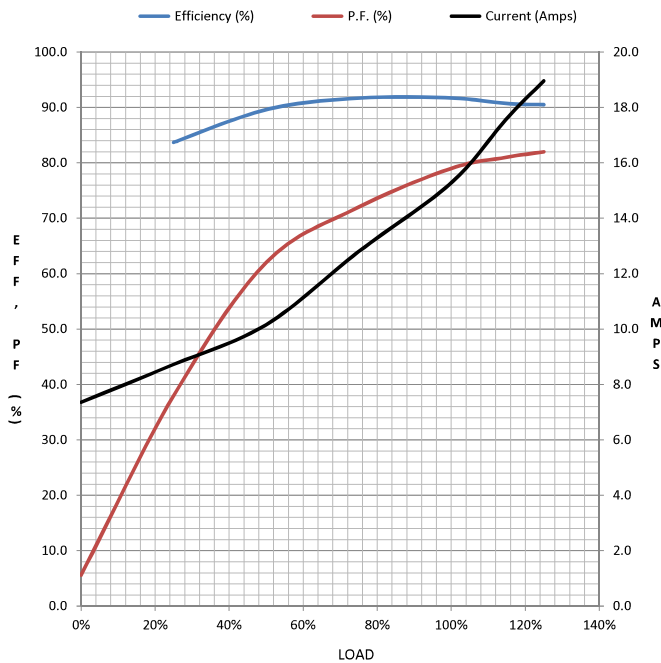
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.4	8.7	10.2	12.8	15.3	17.6	19.0	96.9
Torque(ft-lb)	0.00	16.5	33.1	49.9	66.8	76.8	84.0	141
RPM	1200	1195	1190	1185	1180	1,176	1173	0
Efficiency (%)		83.7	89.6	91.7	91.7	90.7	90.5	
P.F. (%)	5.6	38.0	62.0	72.0	79.0	81.0	82.0	63.4

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1067	1180	1200
Current (Amps)	96.9	92.0	56.6	15.3	7.4
Torque(ft-lb)	141	134	182	66.8	0.00

Information Block

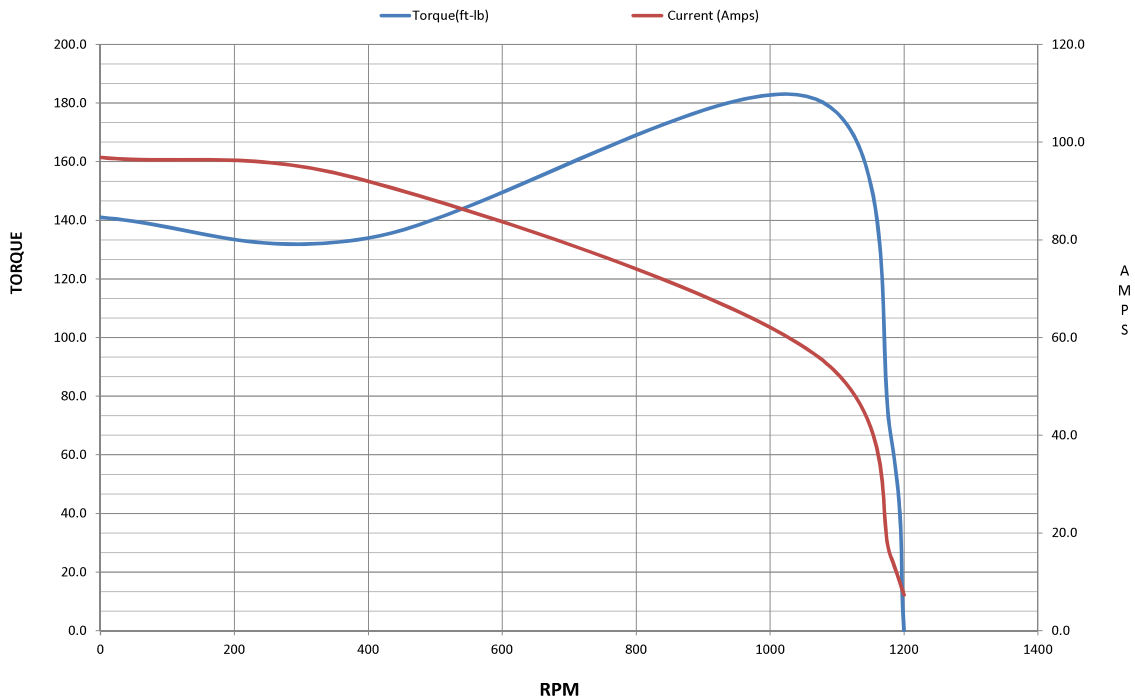
HP	15.0
Sync. RPM	1200
Frame	160L
Enclosure	TEFC
Construction	TFN
Voltage	575 V
Frequency	60 Hz
Design	N
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	80 °C
Duty	CONT
Ambient	40 °C
Elevation	3,300 feet
Rotor/Shaft wk ²	4.3 Lb-Ft ²
Ref Wdg	IE3L1606202
Sound Pressure @ 1M	68 dBA
VFD Rating	NA
Outline Dwg	SS208564
Conn. Diag	8442000677



Additional Specifications:
RATED FOR CONSTANT 2:1/VARIABLE 10:1 ON VFD POWER(1,0SF)

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5909	0.4137	1,8024	2,7183	44,5862

Speed - Torque Curve



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 : TCA0113AP211GAA009

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

Catalog No : R435

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
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22