PRODUCT INFORMATION PACKET



Model No: TCA0032AE211GAA009

Catalog No: R352B

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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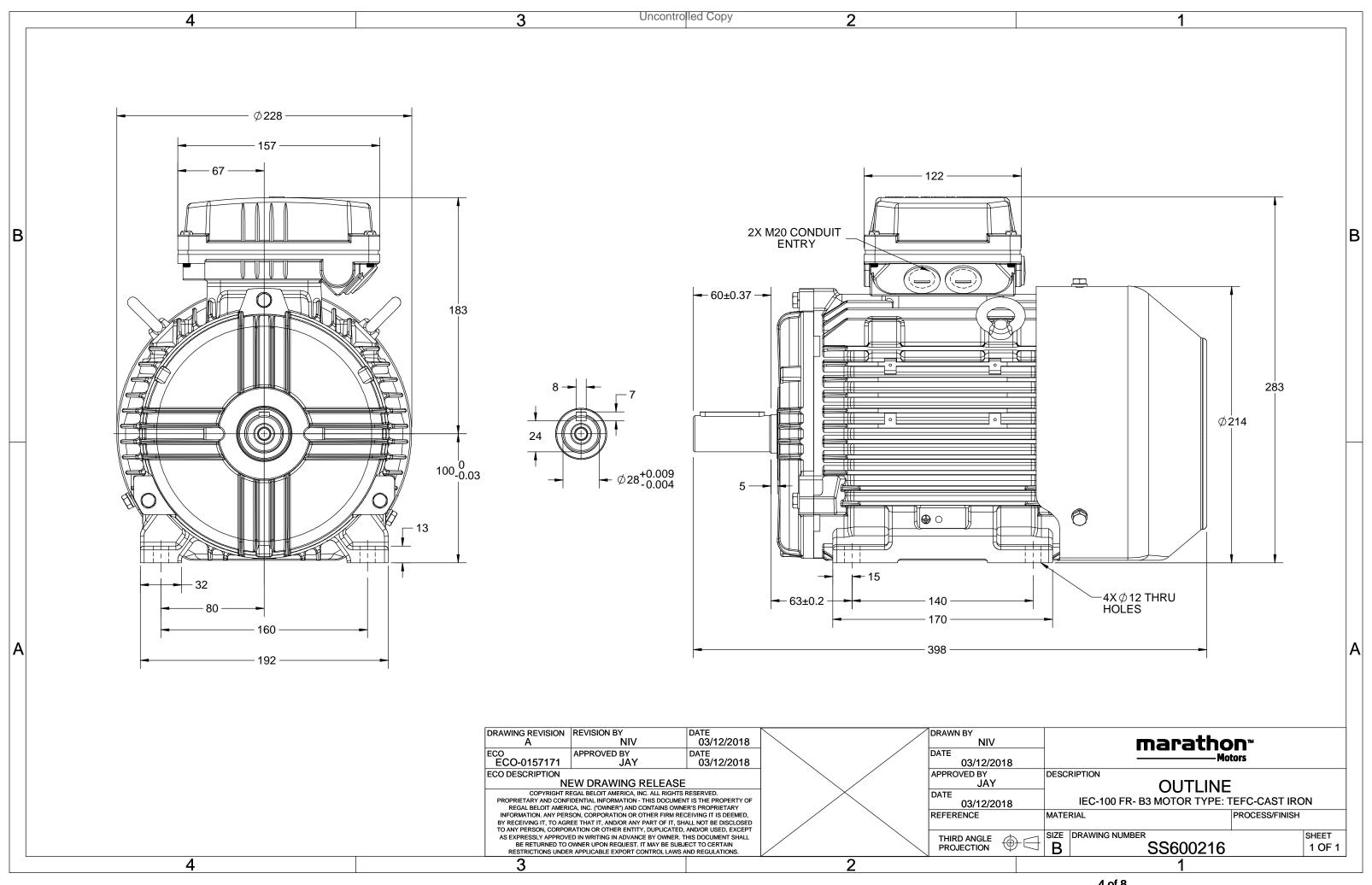
Nameplate Specifications

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	Line Or Inverter		
Poles	4	Rotation	Reversible			
Resistance Main	3.18 Ohms	Mounting	В3			
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					
Connection Drawing 8442000729		Outline Drawing	SS600216			

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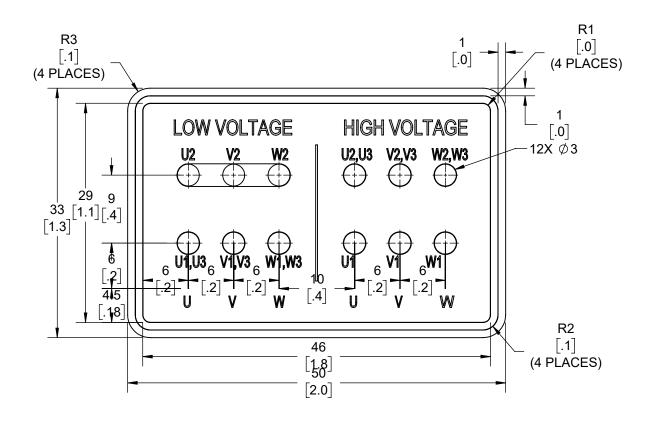


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DRAWING REVISION	REVISION BY	REV DATE/© DATE
Α	LK	30/6/2021
ECO	APPROVED BY	DATE
CR-0003544	JAY	30/6/2021
ECO DESCRIPTION		

NEW DRAWING	j
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GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY 3. THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: U1-U3, V1-V3 AND W1-W3 OF ARIAL WITH 3mm SIZE 4.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LK DATE 30/6/2021	REGAL® Regal Beloit America, Inc.				
	APPROVED BY JAY DATE 30/6/2021	DESCRIPTION CONN DIAGRAM-NAMEPLATE 9LEADS - STAR CONNECTION				
	REFERENCE		PROCESS/FINISH			
	THIRD ANGLE PROJECTION	A B442000729	SHEET 1 OF 1			



TerraMAX[™]



									P.O. BOX 8003			
							WAUSAU, WI 544	101-8003				
							PH. 715-675-331	1				
									DATA VOLTS:	460		
					CE	RTIFICATION DATA SI	HEET					
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENC		TCA0032AE211G			-
CONN. DIA		8442000675						CAT #:		352B		
OUTLINE:		SS600216	NONE					MER PART #: MOUNTING:				
WINDING: SPEED:		IE3L1004202	NONE	1				MOUNTING:	F3			
SPEED.				т	VDIC AI	MOTOR PERFORMA	NCE DA	тл				
	1			<u>'</u>	ITICAL	MIOTORY ERIORMA	NOL DA	117				l
HP	ĸw	SYNC RPM	FL	. RPM		FRAME	ENCL	LOSURE	TYPE	KVA CODE		DESIGN
	3.0	4000		705		4001	-		TO A 4001 DO 4			N.
4	3.0	1800		765		100L		EFC	TCA 100LB04	L		N
PH	HZ	VOLTS	А	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	ı	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF		3/4 LD EFF	89.5		1/2 LD EFF	86.3	GTD EFF		ELECT. T		
	F.L. PF	81.0	3/4 LD PF	75.0		1/2 LD PF	64.0	87.9		SQ CAGE INV	RATED	
		T				T						
	. TORQUE	LR AMPS @	460 V			TORQUE	B.D. TORG				± (° C)	
11.9	LB-FT	48.9		35.4	LB-FT	297%	41.8	LB-FT	351%	80		
SOLIND	PRESSURE @ 3										1	
0001151	FT.	SOUND POWER ROTOR WK ²		OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STARTS/HOUR		APROX.	MOTOR WGT
55	dBA	64 dBA		LB-FT ²	0.34	LB-FT ²	10	SEC.	2		47	KG.
,							•		•	•		
					*** SU	PPLEMENTAL INFORMA						
			MOUNT TYPE			SEVERE DUTY		RDOUS	DRIP COVER	SCREENS		
	ACKET TYPE ANDARD	ODE BRACKET TYPE STANDARD	B3	MOTOR ORIE HORIZO		NO NO		ONE	NO NONE		PAINT BLUE (ENAMEL)	
51	ANDARD	STANDARD	ВЗ	HURIZU	NIAL	NU	IN	UNE	NO	NONE	BLUE (E	ENAMEL)
BI	EARINGS											
DE D.	ODE	GREASE	SHAF	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL											
6206	6206	POLYREX EM	STANL	DARD IEC		NONE		ONE	1045 HOT ROLLED (C-204)		CAST IRON	
	•				•				•		•	
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		WDG RTD's		BRG RTD's		MISTORS	CONTROL			
	NONE	NOT	NONE		NONE		NONE		FALSE		NA	
		D0 (11 (1)				V /	Xm (ohms/ph) VIBRATION (in/sec)		FLOAT			
K1	(ohms/ph) 1.986	R2 (ohms/ph) 1.135		ohms/ph) 3.191		X2 (ohms/ph) 5.744		9.708	0.150		ODE	
	1.900	1.133		.191		5.744	10	0.700		.130		DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
Ö								SPEED RANGE:				
T												
E				ENCODER: NONE								
s						NONE						
•						NONE NONE PPR				PPR		
					BRAKE: NONE							
PREPARED BY:					NONE NONE							
	DATE:	11/10/2020					FT-LB: NA					
E05	04 DEV :	0/07/00				ļ	VOLTAGE: NONE HZ:					
FORM: 35	RM: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC					

REGAL



O 25.0 R

Q U 20.0

15.0

10.0

5.0

0.0

0

200

400

600

800

1000

RPM

1200





Data Sheet Date: 5/28/2019 TCA0032AE211GAA009 **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 (%) Enclosure TEFC P.F. (%) Current (Amps) 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 SS600216 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 30.0 40.0

30.0 p

20.0

10.0

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: TCA0032AE211GAA009

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

Catalog No: R352B

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:

Michael A. Logsdon

Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark
Marketing Engineer

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