PRODUCT INFORMATION PACKET



Model No: TCA0153AE221GAA009

Catalog No: R238

Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 180L Frame,

TEFC





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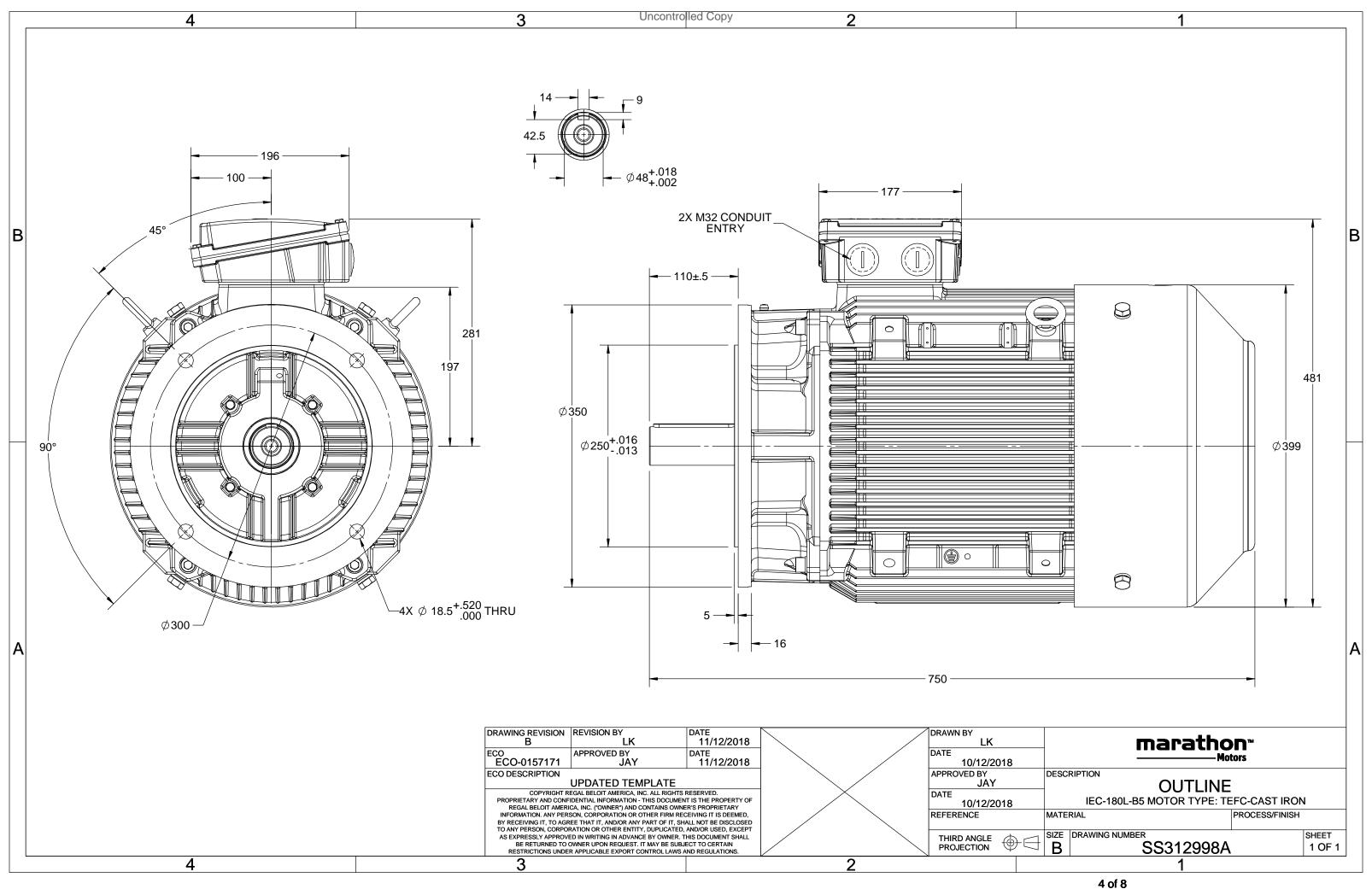
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp			
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V			
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15			
Frame	180L	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91.7 & 90.3 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	53.5/26.7 & 48/24.1 A	Power Factor	77			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	F			
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	6	Rotation	Reversible		
Resistance Main	.56 Ohms	Mounting	Round		
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				
Connection Drawing	8442000715	Outline Drawing	SS312998A		

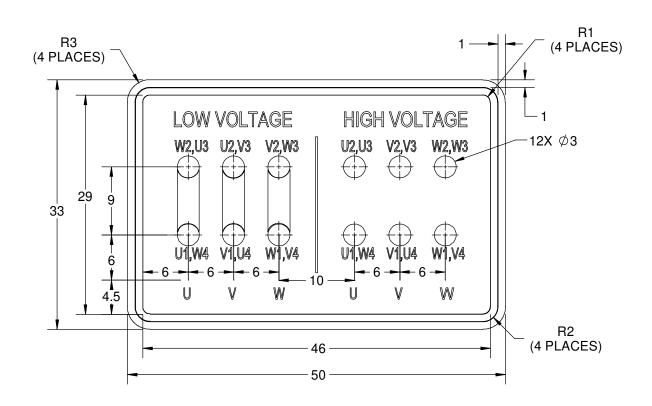
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

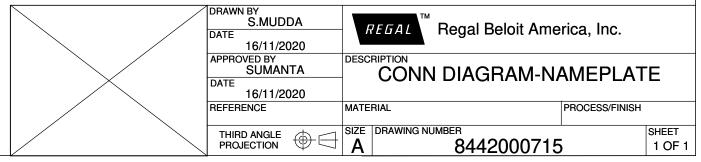
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



NOTES:

- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. 1.
- 2.
- THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 4. 3mm SIZE
- OTHER LETTER FONT SIZE SHOULD BE 3.5mm. 5.

8WD.442.2017





TerraMAX[™]



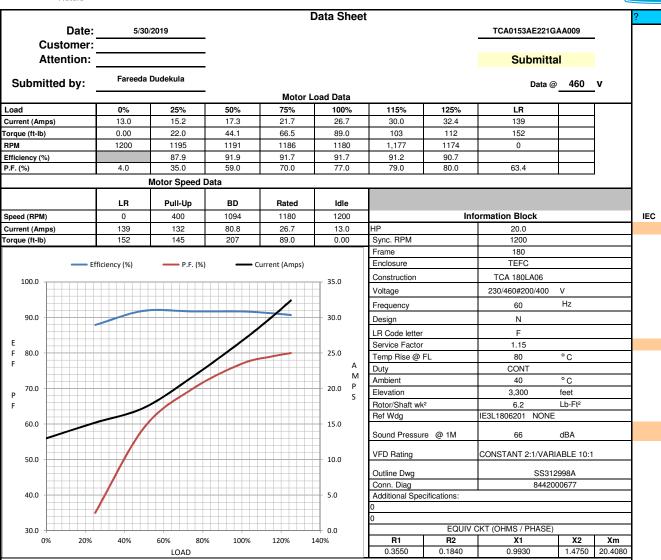
									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
							PH. 715-675-3311					
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA S	HEET					
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENC		TCA0153AE221G			-
CONN. DIA		8442000677						CAT #:	-	R238		
OUTLINE:		SS312998A	NONE					MER PART #: MOUNTING:	F0			
WINDING: SPEED:		IE3L1806201	NONE	1				WOUNTING:	rs			
SPEED.				т	VDIC AI	MOTOR PERFORMA	NCE DA	ТΛ				
					ITIOAL	WOTOK FERTOKWA	NOL DA	17	1			l
HP	ĸw	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
00	45.0	1000		100		4001	_	FF0	TO 4 4001 400	_		
20	15.0	1200	1	180		180L		EFC	TCA 180LA06	F		N
PH	HZ	VOLTS	А	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	53.5/26	.7&48/24.1	ı	INE OR INVERTER	С	ONT	F	1.15	40	3300
										•	•	
	F.L. EFF		3/4 LD EFF	91.7		1/2 LD EFF	91.9	GTD EFF		ELECT. T	YPE	
	F.L. PF	77.0	3/4 LD PF	70.0		1/2 LD PF	59.0	90.5		SQ CAGE IN\	/ RATED	
	TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TORG				£ (° C)	
89.0	LB-FT	139		152	LB-FT	171%	207	LB-FT	233%	80		
SOLIND	PRESSURE @ 3								1		1	
300ND F	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR*	TS/HOUR	APROX.	MOTOR WGT
56	dBA	65 dBA	6.2	LB-FT ²	6.2	LB-FT ²	15	SEC.	-	2	226	KG.
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					RDOUS				
	ACKET TYPE	ODE BRACKET TYPE STANDARD	TYPE		IENTATION SEVERE DUTY			NONE NO		SCREENS	PAINT BLUE (ENAMEL)	
FF-F	LANGE-300	STANDARD	ROUND	HORIZO	NIAL	NO	N	ONE	NO	NONE	BLUE (E	ENAMEL)
	EARINGS								1		1	
DE	ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
BALL	BALL										+	
6311	6211	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT R	ROLLED (C-204)	CAST	T IRON
									'		•	
											SPACE	HEATERS
	RMOSTATS	PROTECTORS		RTD's		BRG RTD's		MISTORS		NTROL		
	NONE	NOT	N	ONE		NONE	N	ONE	F	ALSE	1	NΑ
						Wa						
R1 (ohms/ph) R2 (ohms/ph)			ohms/ph) X2 (ohms/ph) 0.993 1.475			ohms/ph) 0.408	VIBRATION (in/sec) 0.150		FLOAT ODE			
	0.355	0.184	0	.993		1.475	20	0.406		1.150		DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
Ö				INV. HP SPEED RANGE: NONE								
T												
E								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
					BRAKE: NONE							
	PREPARED BY:						NONE NONE					
	DATE:	11/16/2020						FT-LB:		NA		
								VOLTAGE:		IONE		HZ:
FORM: 35	31 REV_4	2/27/06					UL:	V - LI,ME-INS	CONST UL REC			

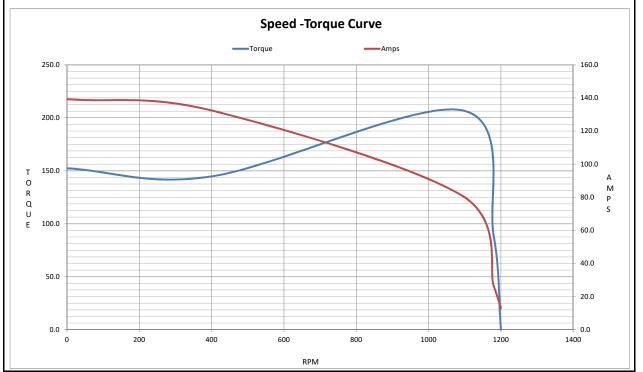














EC Declaration of Conformity

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: TCA0153AE221GAA009

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

Catalog No: R238 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