PRODUCT INFORMATION PACKET



Model No: TCA18P2AE221GAA009 Catalog No: R240

Cast Iron Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 180M Frame,

TEFC





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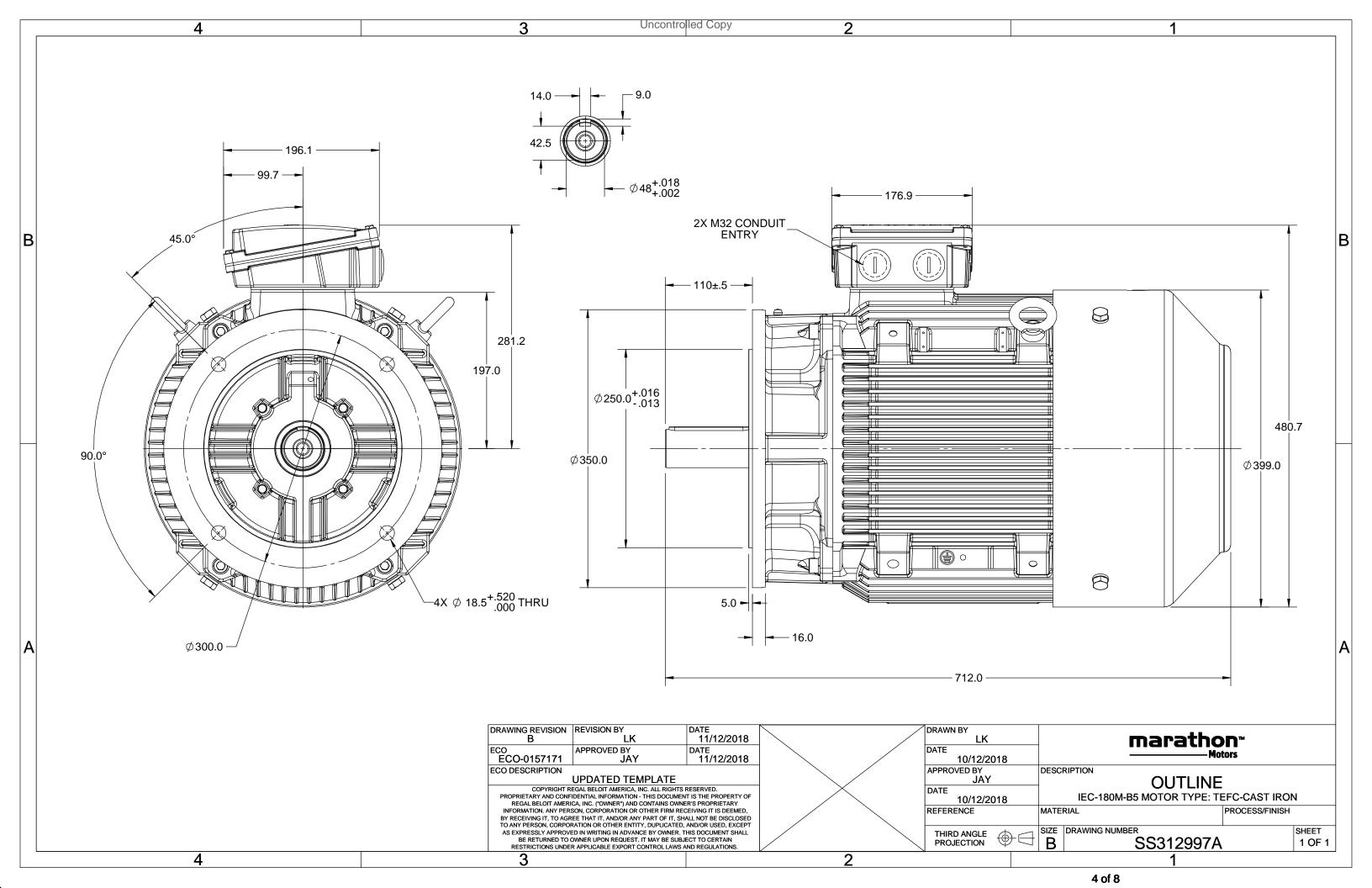
Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp			
Output KW	18.5 & 15.0 kW	Voltage	230/460 & 200/400 V			
Speed	1780 & 1485 rpm	Service Factor	1.15 & 1.15			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	93.6 & 92.1 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	62/31 & 59.5/29.8 A	Power Factor	81			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
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	.32 Ohms	Mounting	Round		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	28.03 in		
Frame Length	12.91 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	SS312997A		

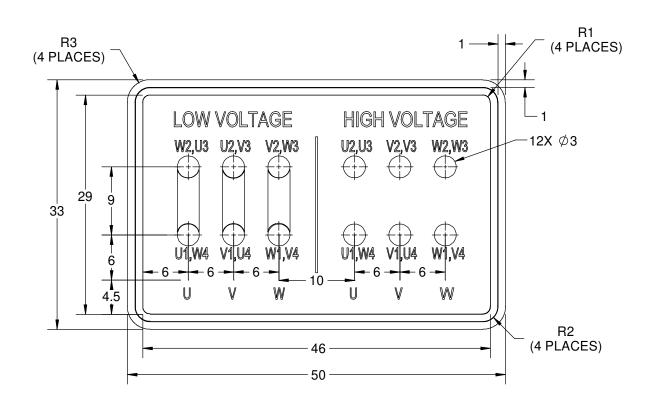
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

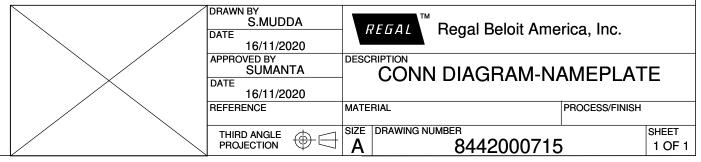
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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.

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TerraMAX[™]



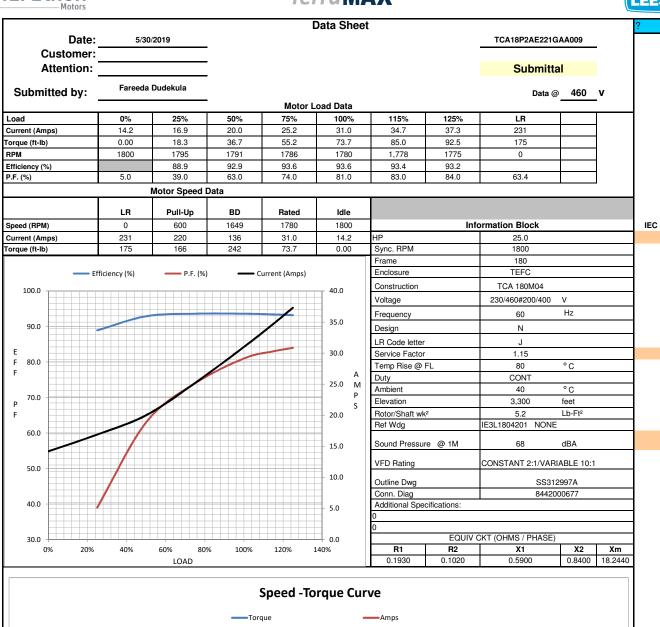
					CEI	RTIFICATION DATA S	ЦЕЕТ		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:				
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS312997A IE3L1804201	NONE				CUSTO REFERENC CUSTO	CAT #: MER PART #: MOUNTING:	TCA18P2AE221G	AA009 R240			
НР	кw	SYNC RPM		. RPM	YPICAL	MOTOR PERFORMA			TYPE	1014.00	.n.	DESIGN	
		-					ENCLOSURE			KVA CODE			
25	18.7	1800	1	780	l	180M	Т	EFC	TCA 180MA04	J		N	
PH 3	HZ 60/50	VOLTS 230/460#200/400		MPS 459.5/29.8	l	START TYPE .INE OR INVERTER		UTY ONT	INSL F	S.F. 1.15	AMB (° C) 40	ELEV.(Ft.) 3300	
	F.L. EFF		3/4 LD EFF	93.6		1/2 LD EFF	92.9	GTD EFF		ELECT. T			
	F.L. PF	81.0	3/4 LD PF	74.0		1/2 LD PF	63.0 92.6		1	SQ CAGE INV	RATED		
	. TORQUE	LR AMPS @	460 V		L.R. TORQUE		B.D. TORG		QUE F.L. RISE		(° C)		
73.7	LB-FT	231		175	LB-FT	237%	242	LB-FT	328%	80			
SOUND PRESSURE @ 3 FT. SOUND POWER ROTOR WK ²			MAX. LOAD WK ²				rs/Hour	APROX.	MOTOR WGT				
68 dBA 77 dBA 5.2 LB-FT ² 5.2 LB-FT ²				12	SEC.		2	241	KG.				
					*** SU	PPLEMENTAL INFORMA							
		MOUNT TYPE	MOTOR ORIENTATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT				
FF-F	LANGE-300	STANDARD	ROUND	HORIZO	NTAL	NO	N	ONE	NO	O NONE BLUE (ENAMEL)	
DE BI	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	FRAME MATERIAL	
BALL 6311	BALL 6211	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT ROLLED (C-204)		CAST IRON		
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE	s BRG RTD's NONE			MISTORS ONE		NTROL ALSE	SPACE HEATERS NA		
R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph)		hms/ph)	X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT				
	0.193	0.102		.590	0.840			3.244		.150	ODE		
* N O T								INV. HI	SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1		
E S *								ENCODER: NONE NONE			NONE	PPR	
PREPARED BY:													
FORM: 3531 REV_4 2/27/06				VOLTAGE: NONE HZ: UL: V - LI,ME-INS,CONST UL REC									

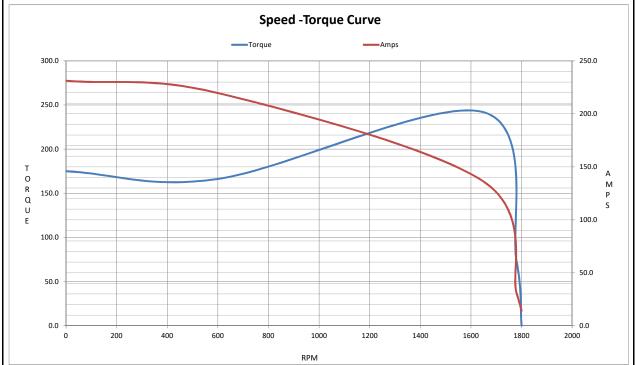














EC Declaration of Conformity

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: TCA18P2AE221GAA009

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

Catalog No : R240
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:

<u>Authorized Representative in the Community:</u>

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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