PRODUCT INFORMATION PACKET



Model No: TCA0221AE221GAA009

Catalog No: R242

Cast Iron Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 180M Frame,

TEFC





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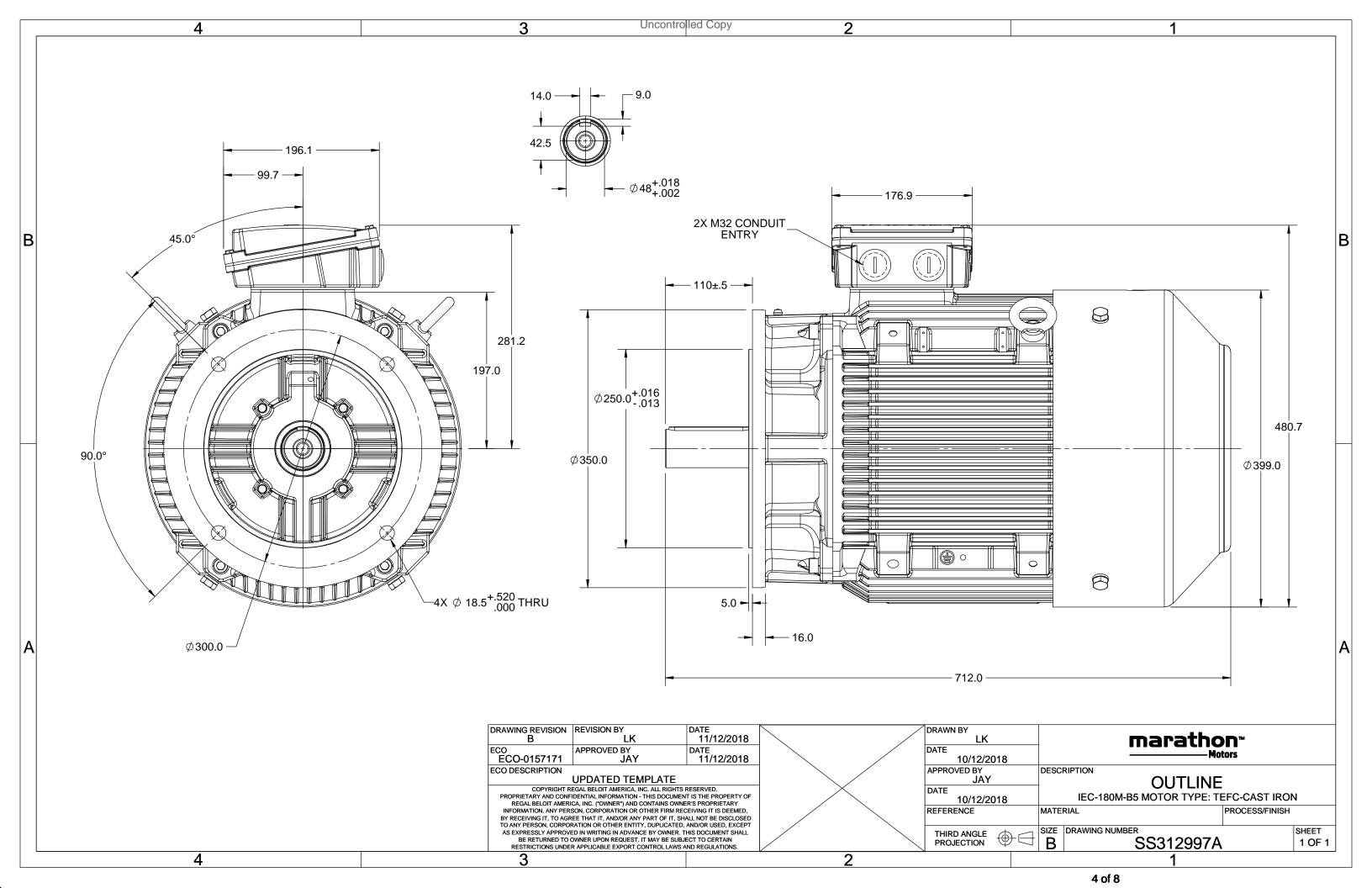
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp			
Output KW	22.0 & 18.5 kW	Voltage	230/460 & 200/400 V			
Speed	3550 & 2955 rpm	Service Factor	1.15 & 1.15			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91.7 & 92.4 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	68/34 & 68/34 A	Power Factor	88			
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	2	Rotation	Reversible
Resistance Main	.37 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		
Outline Drawing	SS312997A	Connection Drawing	8442000715

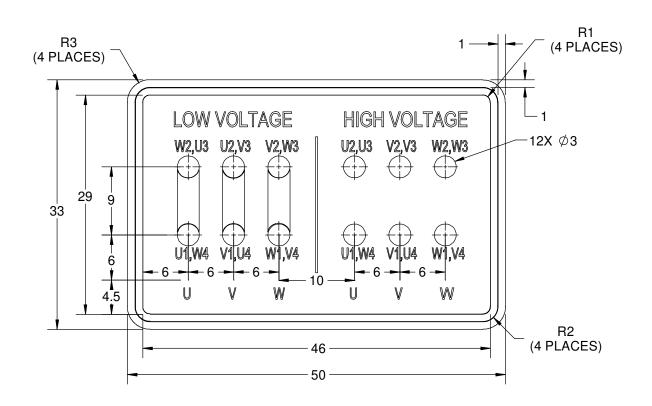
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

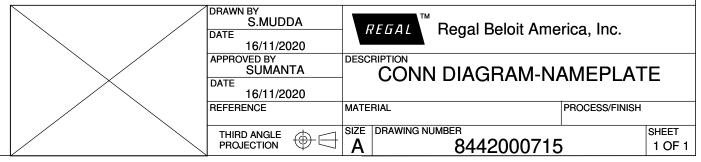
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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[™]



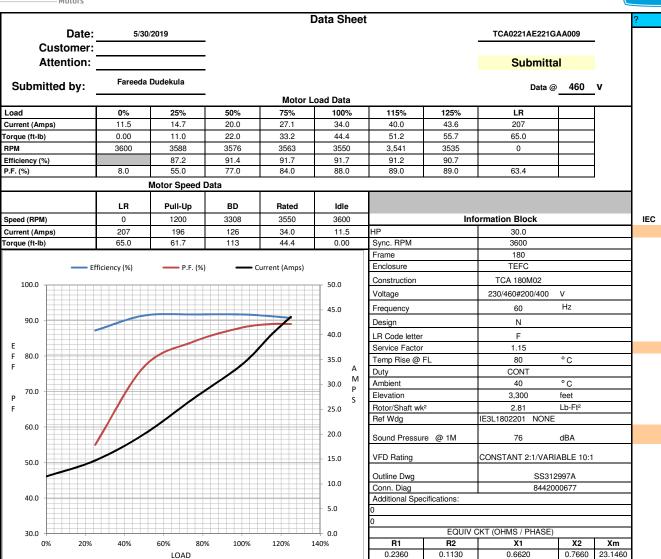
									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS312997A IE3L1802201	NONE	1	CEF	RTIFICATION DATA SI	CUSTO REFERENC CUSTON	OMER P.O. #: CE MODEL #: CAT #: MER PART #: MOUNTING:	TCA0221AE221G	AA009 R242		
SPEED.				Т	YPICAL	MOTOR PERFORMA	NCE DA	TA				
HP	кw	SYNC RPM	FL	RPM		FRAME	ENCL	OSURE	TYPE	KVA CODE		DESIGN
30	22.4	3600	3	550		180M	Т	EFC	TCA 180MA02	F		N
PH	HZ	VOLTS		MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	68/3	1&68/34	l l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF	01 7	3/4 LD EFF	91.7		1/2 LD EFF	91.4	GTD EFF		ELECT. T	VDE	
	F.L. PF		3/4 LD PF	84.0		1/2 LD PF			SQ CAGE INV RATED			
F.L	TORQUE	LR AMPS @	460 V		L.R. TORQUE			B.D. TORQUE		F.L. RISE	(° C)	
44.4	LB-FT	207		65.0	LB-FT 146% 113 LB-FT		255% 80					
SOUND PRESSURE @ 3 FT. SOUND POWER ROTOR		OR WK²			SAFE STALL TIME START		rs/Hour	APROX.	MOTOR WGT			
76	dBA	85 dBA	2.81	LB-FT ²	2.81	LB-FT ²	15	SEC.		2	209	KG.
	*** SUPPLEMENTAL INFORMATION ***											
	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE	HAZARDOUS		INT					
FF-F	LANGE-300	STANDARD	ROUND	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	NAMEL)
DE BI	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
BALL 6311	BALL 6211	POLYREX EM	STANI	STANDARD IEC		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS	PROTECTORS		RTD's		BRG RTD's		MISTORS	ORS CONTROL FALSE		SPACE HEATERS NA	
	NONE	NOT	IN IN	ONE		NONE	IN	ONE		HLOE		IA .
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	ohms/ph) X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
	0.236	0.113	0	.662		0.766	23	3.146	0	.150	ODE	
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
	PREPARED BY: DATE:	11/16/2020					BRAKE: NONE NONE NONE NONE FT-LB: NA					
FORM: 3531 REV_4 2/27/06				VOLTAGE: NONE HZ: UL: V-LI,ME-INS,CONST UL REC								

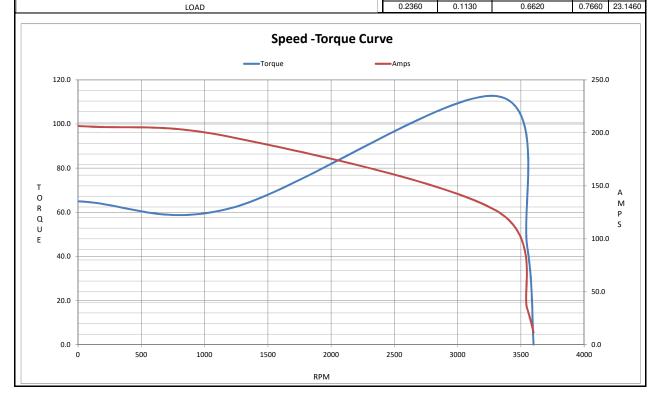














EC Declaration of Conformity

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: TCA0221AE221GAA009

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

Catalog No: R242
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:

J. Cles

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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