PRODUCT INFORMATION PACKET



Model No: TCA0751AE211GAA009

Catalog No: R506A

Cast Iron Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM, 280S Frame,

TEFC





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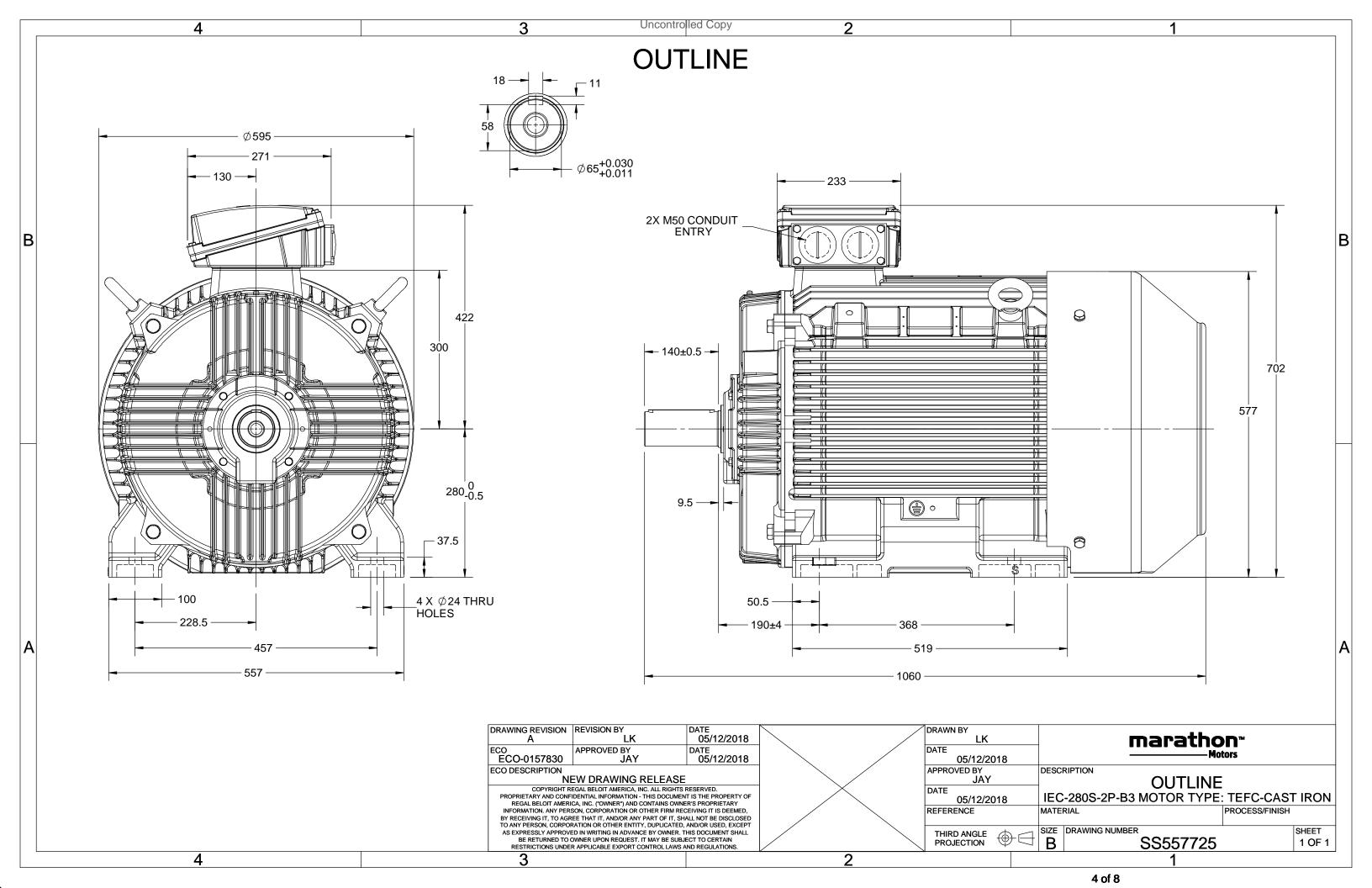
Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp			
Output KW	75.0 & 55.0 kW	Voltage	230/460 & 200/400 V			
Speed	3580 & 2985 rpm	Service Factor	1.15 & 1.15			
Frame	280S	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	94.1 & 94.3 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	222/111 & 190/95 A	Power Factor	90			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	F			
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314			
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	.06 Ohms	Mounting	В3		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	IEC	Overall Length	41.73 in		
Frame Length	21.61 in	Shaft Diameter	2.559 in		
Shaft Extension	5.51 in	Assembly/Box Mounting	F3		
Inverter Load	CONSTANT 2:1/VARIABLE 10:1				
Outline Drawing	SS557725	Connection Drawing	8442000715		

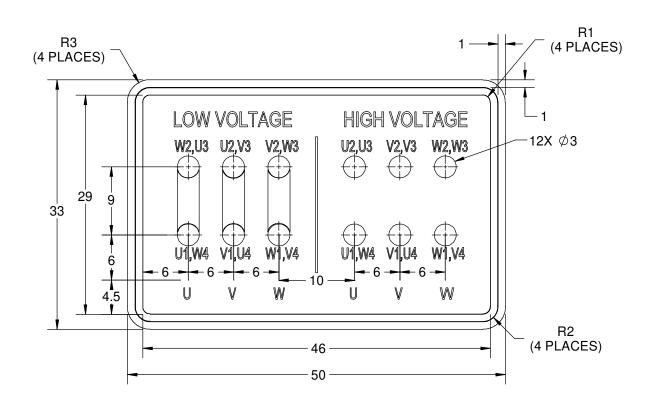
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

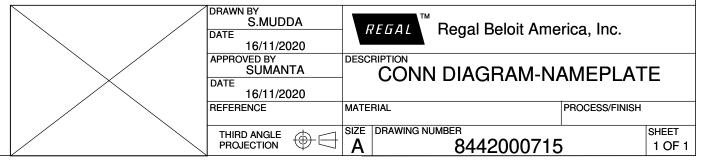
GEOMENTRIC TOLERANCE					
LINEAR DIM	>0~6	±0.1			
	>6~30	±0.2			
	>30~120	±0.3			



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[™]



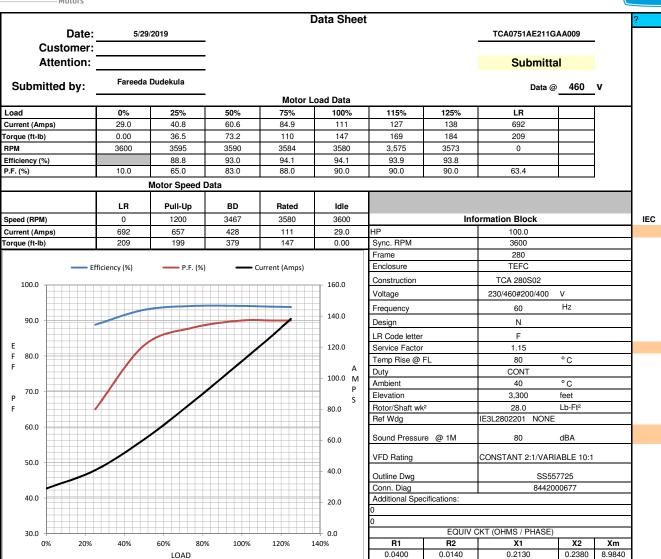
					CEF	RTIFICATION DATA S	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS557725 IE3L2802201	NONE	1	TVDIC AL	MOTOR PERFORMA	CUSTO	CAT #: MER PART #: MOUNTING:	TCA0751AE211G	AA009 506B		
НР	кw	SYNC RPM	FI	RPM	IFICAL	FRAME			TYPE	KVA CO)DE	DESIGN
100	75	3600		580		280\$	TEFC		TCA 280SA02			N
100	10	3000		1000		2003		LIO	1 CM 2003A02	<u> </u>		I IN
PH 3	HZ 60/50	VOLTS 230/460#200/400		MPS 1&190/95	l	START TYPE .INE OR INVERTER		UTY ONT	INSL F	S.F. 1.15	AMB (° C)	ELEV.(Ft.) 3300
	F.L. EFF		3/4 LD EFF	94.1		1/2 LD EFF	93.0	GTD EFF		ELECT. T		
	F.L. PF	90.0	3/4 LD PF	88.0		1/2 LD PF	83.0 93.2			SQ CAGE INV	RATED	
F.L.	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TORQUE		F.L. RISE	(° C)	
147 LB-FT 692 209 LB-FT		LB-FT	142%	379 LB-FT		258% 80						
	PRESSURE @ 3 FT.	SOUND POWER			MAX. LOAD WK ²					rs/Hour	APROX.	MOTOR WGT
80	dBA	89 dBA	28.0	LB-FT ²	28	LB-FT ²	15	SEC.	2		737	KG.
					*** SU	PPLEMENTAL INFORMA						
	ACKET TYPE ANDARD	ODE BRACKET TYPE STANDARD	MOUNT TYPE B3	MOTOR ORIE		SEVERE DUTY NO	LOC	ARDOUS EATION ONE	DRIP COVER	ER SCREENS PAINT NONE BLUE (ENAMEL)		
51	ANDARD	STANDARD	ВЗ	HURIZU	NIAL	NO	IN	ONE	NO	NONE	BLUE (E	INAMEL)
DE BE	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	SHAFT MATERIAL		MATERIAL
BALL 6317	BALL 6317	SG S5-V100	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE	BRG RTD's NONE			MISTORS ONE		NTROL ALSE	SPACE HEATERS	
R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph)		hms/ph)	X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT			
	0.040	0.014		.213	0.238			.984	0.150		ODE	
* N O T								INV. HI	P SPEED RANGE:	CONSTANT 2:1/VAF NONE	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
	PREPARED BY: DATE:	11/10/2020					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							

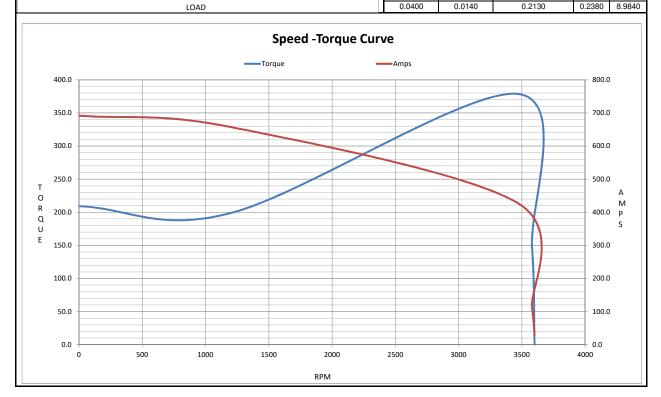














EC Declaration of Conformity

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: TCA0751AE211GAA009

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

Catalog No: R506B

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