PRODUCT INFORMATION PACKET



Model No: TCA0752AE231GAA009

Catalog No: R861

TerraMAX® Cast Iron Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

280S Frame, TEFC





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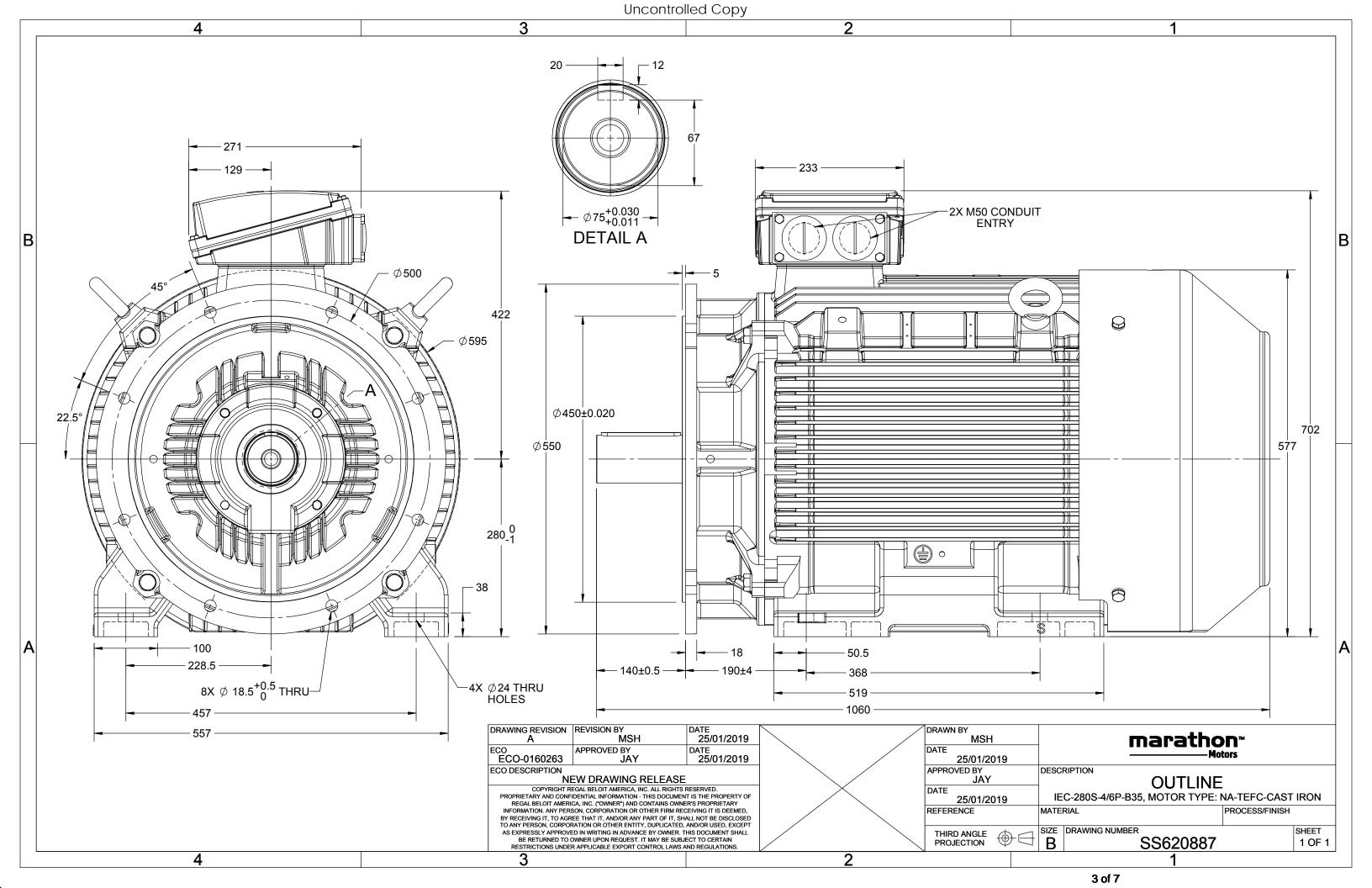
Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp		
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 200/400 V		
Speed	1790 & 1495 rpm	Service Factor	1.15 & 1.15		
Frame	280S	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	95.4 & 94.6 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	230/115 & 200/100 A	Power Factor	86		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	Н		
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317		
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	.05 Ohms	Mounting	В3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Shaft Diameter	75.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS620887	Connection Drawing	8442000715

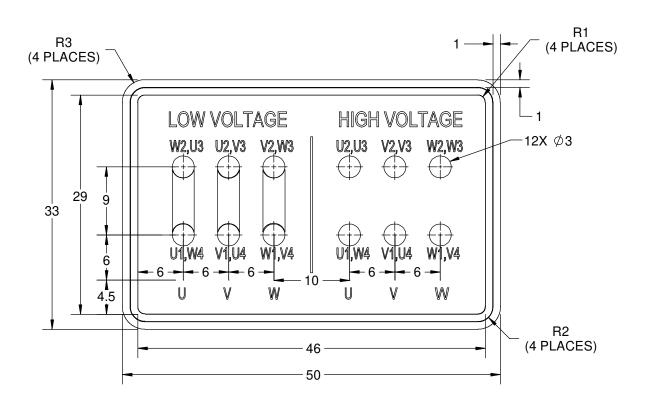
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DRAWING REVISION	REVISION BY	DATE						
Α	S.MUDDA	16/11/2020						
ECO	APPROVED BY	DATE						
ECO-0194685	SUMANTA	16/11/2020						
ECO DESCRIPTION								
NEW DRAWING								

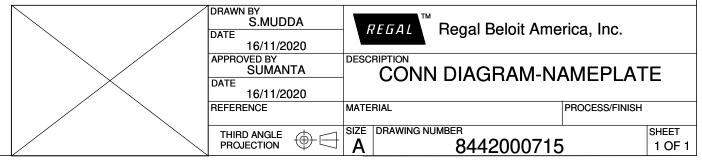
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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 54401-8003							
								PH. 715-675-331	1				
										DATA VOLTS:	460		
						CE	RTIFICATION DATA S	HEET					
						OLI	TIII IOATION DATA S						
сиѕтоме	R:							CUST	OMER P.O. #:				
ORDER #:								REFEREN	CE MODEL #:	TCA0752AE231G	AA009		
CONN. DIA	AGRAM:	8442000677							CAT #:	F	R861		
OUTLINE:		SS620887						CUSTO	MER PART #:				
WINDING:		IE	E3L2804201	NONE	1				MOUNTING:	F3			
SPEED:													
					7	YPICAL	MOTOR PERFORMA	NCE DA	TA				
HP	кw	SYNC	RPM	FL	RPM	FRAME ENCLOSURE		LOSURE	TYPE	KVA CODE		DESIGN	
100	75	180	0	1	790		280S	Т	EFC	TCA 280SA04	н		N
PH	HZ	VOLT	тѕ	А	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#2			5&200/100		INE OR INVERTER		ONT	F	1.15	40	3300
L -	00,00	200, 100#2		200,110		· '				· · ·			
	F.L. EFF	95.4		3/4 LD EFF	95.4		1/2 LD EFF	93.9	GTD EFF		ELECT. T	YPE	
	F.L. PF			3/4 LD PF	82.0		1/2 LD PF	74.0	94.7		SQ CAGE INV		
		00.0		0, 1 2 2	02.0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 1.0	01.7		04 0/102 1111	101125	
	TORQUE		R AMPS @	460 V		I D	TORQUE		B.D. TOR	OHE	F.L. RISE	(° C)	
	LB-FT	_	817	400 V	702 LB-FT 240%				272%	80 80			
255	LD-1 1		017		702	LD-I I	24070	131	LD-1 I	21270	00		
SOUND F	PRESSURE @ 3											1	
	FT.	SOUND	POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR*	rs/Hour	APROX.	MOTOR WGT
72	dBA	81 dBA		53.9	LB-FT ²	53.9	LB-FT ²	15	SEC.		2	777	KG.
		•		•		*** 611	PPLEMENTAL INFORMA	TION ***		•		•	
		I		MOUNT		*** 50	PPLEMENTAL INFORMA		ARDOUS			I	
DE BR	ACKET TYPE	ODE BRACK	ET TYPE	TYPE	MOTOR ORIE	NTATION	SEVERE DUTY		CATION	DRIP COVER	SCREENS	PΔ	INT
	LANGE-500	STAND		B3	HORIZO		NO		IONE	NO	NONE		NAMEL)
													,
BE	EARINGS												
DE	ODE	GREA	SE	SHAFT TYPE			SPECIAL DE		IAL ODE	SHAFT	MATERIAL FRAME		MATERIAL
BALL	BALL											+	
6317	6317	SG S5-\	V100	STANE	IDARD IEC NONE		N	IONE	IE 1045 HOT ROLLE		OLLED (C-204) CAST IRON		
						-							
												SPACE	HEATERS
THE	RMOSTATS	PROTEC	TORS	WDG	RTD's		BRG RTD's	THER	MISTORS	COI	NTROL	SFACE	HEATERS
	NONE	NO	Т	N	NONE NONE		N	IONE	FALSE		NA		
R1	(ohms/ph)	R2 (ohm	ıs/ph)	X1 (o	hms/ph)		X2 (ohms/ph)		ohms/ph)	VIBRAT	ION (in/sec)	FLOAT	
	0.031	0.01	1	0	.150		0.286	6	3.469	0	.150	ODE	
*													
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1								
0							INV. HP SPEED RANGE: NONE						
Т													
E									ENCODER:	NONE			
S					NONE								
*								NONE NONE PPR				PPR	
									BRAKE:	NONE			
PREPARED BY:							1	NONE	NON	E			
	DATE: 11/27/2020					FT-LB: NA							
						VOLTAGE: NONE HZ:							
FORM: 35	ORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC							











REGAL

RPM



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: TCA0752AE231GAA009

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

Catalog No : R861

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