PRODUCT INFORMATION PACKET



Model No: TCA0453AE231GAA009

Catalog No: R856

TerraMAX® Cast Iron Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

280S Frame, TEFC





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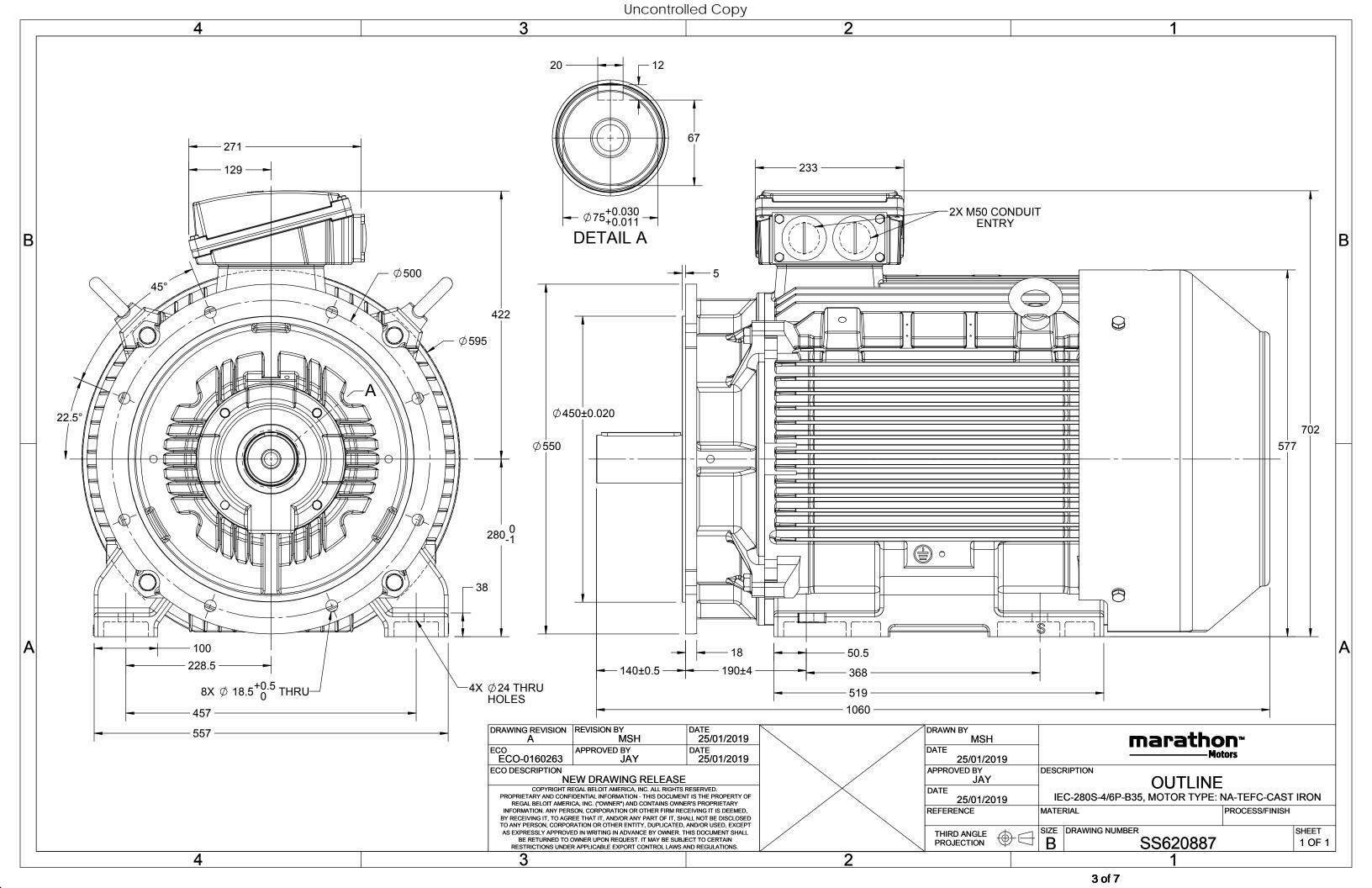
Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp			
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 200/400 V			
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.15			
Frame	280S	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	94.5 & 93.3 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	146/73 & 142/71 A	Power Factor	82			
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	6	Rotation	Reversible			
Resistance Main	.08 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			

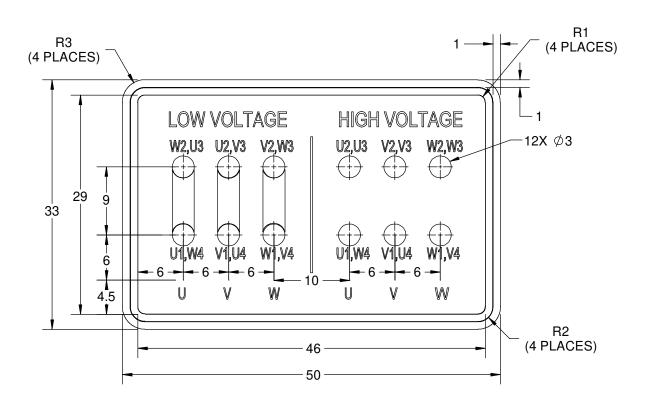
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

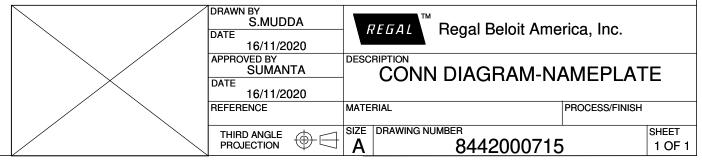
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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. 715-675-3311				
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CE	RTIFICATION DATA SI	HEET					
					OL	THE ICATION DATA SI	ILL.					
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA0453AE231G	AA009		
CONN. DIA	AGRAM:	8442000677					CAT #:		F	R856		
OUTLINE:		SS620887					CUSTO	MER PART #:				
WINDING:		IE3L2806201	NONE	1	4			MOUNTING:				-
		12322000201	NONE					MODINTING.	13			
SPEED:		_		_								
				Т	YPICAL	. MOTOR PERFORMA	NCE DA	ΛTA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	TYPE KVA CO		DDE	DESIGN
60	45	1200	1	1190		280S	T	EFC	TCA 280SA06	Н		N
PH	HZ	VOLTS	Α	MPS		START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	146/7	3&142/71		LINE OR INVERTER		ONT	F	1.15	40	3300
_ <u> </u>	00/00	200/100//200/100	1.10//	00112711		ENTE ON NAVENTEN				1.10		0000
		Laval							1			
	F.L. EFF		3/4 LD EFF	94.5		1/2 LD EFF	92.4	GTD EFF		ELECT. T		
	F.L. PF	82.0	3/4 LD PF	77.0		1/2 LD PF	68.0	93.7		SQ CAGE INV	/ RATED	
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
	LB-FT	483		494	LB-FT	186%	702	LB-FT	265%	80	1 -/	
203	LD-1 1	463		434	LD-1 1	100 %	102	LD-1 1	20370			
COLIND	PRESSURE @ 3	1							1		1	
SOUND	FT.	SOUND POWER	BOT.	OR WK²		MAX. LOAD WK ²	CAEE	TALL TIME	OT AD	TS/HOUR	APROX.	MOTOR WGT
				LB-FT ²		LB-FT ²			STAR			
68	dBA	77 dBA	53.2	LB-F1-	53.2	LB-F1	15	SEC.		2	658	KG.
			`									
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					ARDOUS				
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIE	NTATION	SEVERE DUTY	LOC	CATION	DRIP COVER	SCREENS	PA	INT
FF-F	LANGE-500	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)
		'									,	,
BI	EARINGS											
DE D.	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
BALL	BALL	SG S5-V100	STANI	DARD IEC		NONE	NONE	1045 HOT F	ROLLED (C-204)	CAST	Γ IRON	
6314	6314					-				. (/		-
											00405	
THE	RMOSTATS	PROTECTORS	WDG	3 RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT		ONE		NONE		IONE		ALSE		NA
	HONE	1401		ONL		NONE		IOI4L		HEOL	· '	1/1
D4	(= b = (= b ·)	D2 (share (sh)	V4./-	hara (a.b.)		V2 (-b(-b)	V /-	hara (ala)	VIDDAT	ION (interes)		CAT
KI	(ohms/ph)	R2 (ohms/ph)		hms/ph)	X2 (ohms/ph)			ohms/ph)	VIBRATION (in/sec)		FLOAT	
	0.052	0.033	0	.336		0.449		3.891).150	0	DE
*												
N .						INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1			
0							P SPEED RANGE:					
T									OI LLD IVAIOL.			
E								ENCODER:	NONE			
s								NONE				
*								NONE			NONE	PPR
1								BRAKE:	NONE			
1	DDEDADED SY											
1	PREPARED BY:								NONE	NON	_	
1	DATE:	11/2//2020						FT-LB:		NA		
1						<u> </u>		VOLTAGE:		IONE		HZ:
FORM: 35	RM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC						











REGAL



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: TCA0453AE231GAA009

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

Catalog No : R856
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