## PRODUCT INFORMATION PACKET



Model No: TCA0751AE231GAA009

Catalog No: R860

TerraMAX® 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 & 56.0 kW	Voltage	230/460 & 200/400 V				
Speed	3580 & 2985 rpm	Service Factor	1.15 & 1.15				
Frame	280S	OS Enclosure Totally Enclosed I					
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**

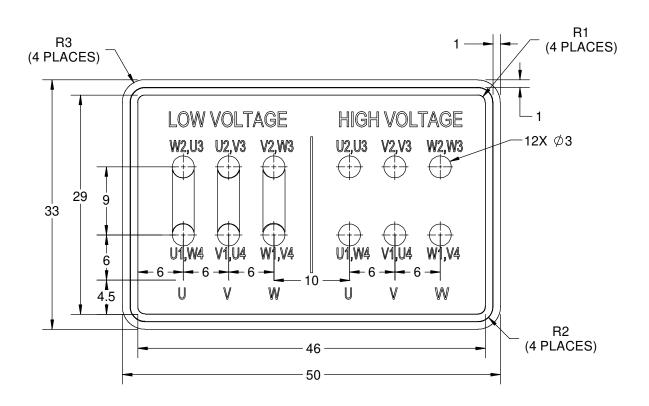
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	2	Rotation	Reversible			
Resistance Main	.06 Ohms	Mounting	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	65.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Outline Drawing	SS620886	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						

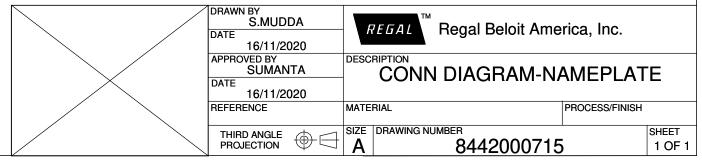
GEOMENTRIC TOLERANCE						
LINEAR DIM	>0~6	±0.1				
	>6~30	±0.2				
	>30~120	±0.3				



#### 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**<sup>™</sup>



					CE	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 SS620886 IE3L2802201	NONE	1			CUSTO	CAT #: MER PART #: MOUNTING:	TCA0751AE231G	AA009 8860			
НР	кw	SYNC RPM	-	RPM	YPICAL	MOTOR PERFORMA			TYPE	10/4 00	NDF.	DESIGN	
		-					ENCLOSURE			KVA CODE			
100	75	3600	] 3	580		280S	Т	EFC	TCA 280SA02	F		N	
<b>PH</b> 3	<b>HZ</b> 60/50	VOLTS 230/460#200/400		MPS 1&190/95	l	START TYPE .INE OR INVERTER		<b>UTY</b> ONT	INSL F	<b>S.F.</b> 1.15	<b>AMB (° C)</b> 40	ELEV.(Ft.) 3300	
	F.L. EFF F.L. PF		3/4 LD EFF 3/4 LD PF	94.1 88.0		1/2 LD EFF 1/2 LD PF	93.0 83.0	GTD EFF 93.2		ELECT. T SQ CAGE INV			
	1.E.F1 90.0 314 ED F1 00.0					94 0/102 11/1/16							
	. TORQUE LB-FT	LR AMPS @ 692	460 V	209	L.R. TORQUE B.D. TORG  LB-FT 142% 379 LB-FT		258% F.L. RISE 258% 80		(° C)				
	SOUND PRESSURE @ 3 FT. SOUND POWER ROTOR WK2		MAX. LOAD WK <sup>2</sup> SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT					
80	dBA	89 <b>dBA</b>	28.0	LB-FT <sup>2</sup>	28	LB-FT <sup>2</sup>	15	SEC.		2	757	KG.	
					*** SU	PPLEMENTAL INFORMA							
	ACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIE		SEVERE DUTY	LOC	RDOUS ATION	DRIP COVER	SCREENS	PAINT		
FF-F	LANGE-500	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NO NONE BLUE (ENAMEL)		ENAMEL)	
DE BE	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME MATERIAL		
BALL 6314	BALL 6314	SG S5-V100	STANI	DARD IEC		NONE	N	ONE	1045 HOT R	1045 HOT ROLLED (C-204)		CAST IRON	
	RMOSTATS NONE	PROTECTORS NOT		G RTD's ONE				DNTROL SPACE  SPACE  N		<b>HEATERS</b>			
R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/p		hms/nh)	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/VAR	RIABLE 10:1		
E S *								ENCODER: NONE NONE			NONE	PPR	
PREPARED BY:					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								











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: TCA0751AE231GAA009

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

Catalog No: R860 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. cers

Michael A. Logsdon Vice President, Technology

Julian Clark Marketing Engineer

Created on 09/01/2022

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