PRODUCT INFORMATION PACKET



Model No: TCA0222AE231GAA009

Catalog No: R843

TerraMAX® Cast Iron Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,

180L Frame, TEFC





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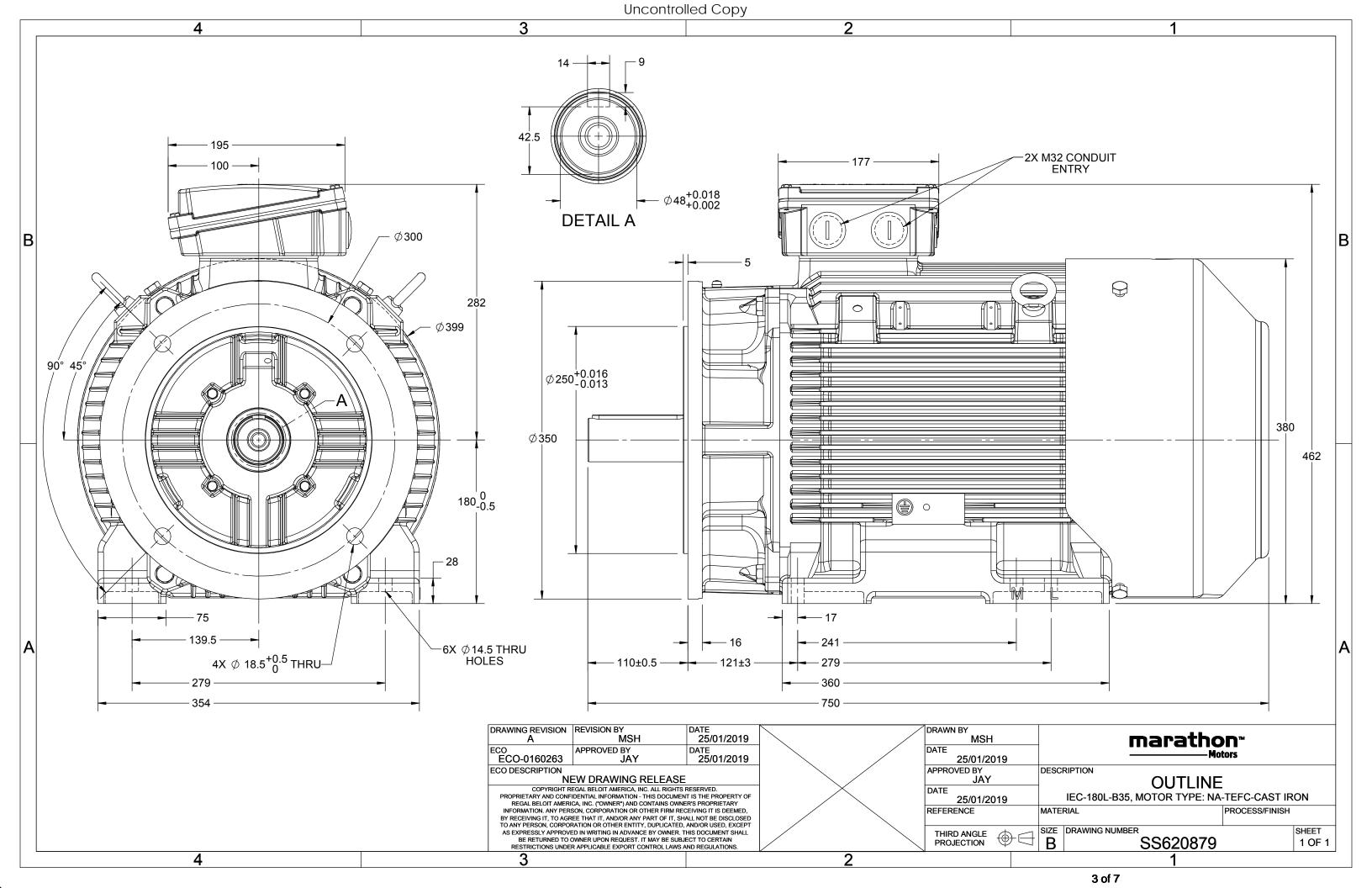
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp 230/460 & 200/400 V			
Output KW	22.4 & 18.7 kW	Voltage				
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15			
Frame	180L	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	93.6 & 92.6 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	72/36 & 70/35 A	Power Factor	83			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	Н			
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	4	Rotation	Reversible			
Resistance Main	.3 Ohms	Mounting	B5			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	48.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing	8442000715	Outline Drawing	SS620879			

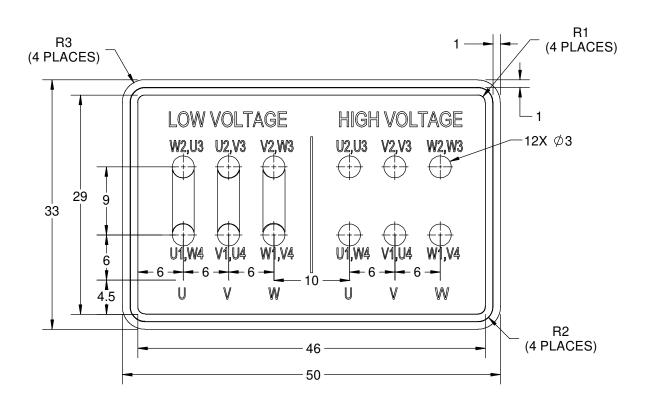
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DRAWING REVISION	REVISION BY	DATE				
Α	S.MUDDA	16/11/2020				
ECO	APPROVED BY	DATE				
ECO-0194685	SUMANTA	16/11/2020				
ECO DESCRIPTION						
NEW DRAWING						

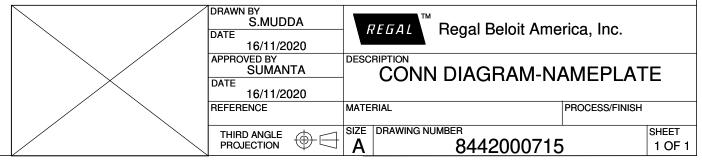
GEOMENTRIC TOLERANCE					
	>0~6	±0.1			
LINEAR DIM	>6~30	±0.2			
	>30~120	±0.3			



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					
									DATA VOLTS:	460		
					CEF	RTIFICATION DATA SI	HEET					
CUSTOME								OMER P.O. #:				
ORDER #:							REFERENCE MODEL #:					-
CONN. DIA		8442000677					0110701	CAT #:		R843		
OUTLINE:		SS620879	NONE					MER PART #: MOUNTING:				
WINDING: SPEED:		IE3L1804202	NONE	1				MOUNTING:	F3			
SPEED.				т	VDIC AI	MOTOR PERFORMA	NCE DA	тл				
				<u>'</u>	ITIOAL	MIOTORY ERIORMA	NOL DA	117				l
HP	ĸw	SYNC RPM	FL	. RPM		FRAME	ME ENCLOSURE		TYPE	KVA CODE		DESIGN
00	00.00	1000		700		4001	-		TO 4 4001 404			
30	22.00	1800	1	780		180L	ı	EFC	TCA 180LA04	Н		N
PH	HZ	VOLTS	А	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	72/3	6&70/35	ı	INE OR INVERTER	С	ONT	F	1.15	40	3300
									•		•	
	F.L. EFF		3/4 LD EFF	93.6		1/2 LD EFF	93.0	GTD EFF		ELECT. T	YPE	
	F.L. PF	83.0	3/4 LD PF	77.0		1/2 LD PF	66.0	92.6		SQ CAGE INV	'RATED	
	TORQUE	LR AMPS @	460 V			B.D. TORG				Ē (° C)		
88.6	LB-FT	262		201	LB-FT	227%	269	LB-FT	304%	80		
SOLIND	PRESSURE @ 3								Г			
300ND F	FT.	SOUND POWER	ROT	OR WK ²		MAX. LOAD WK ²	SAFE S	TALL TIME	STAR*	rs/Hour	APROX.	MOTOR WGT
68	dBA	77 dBA	5.9	LB-FT ²			SEC.	2		260	KG.	
			•						•		•	•
					*** SU	PPLEMENTAL INFORMA						
			MOUNT TYPE			OFWEDE DUTY		RDOUS	DRIP COVER SCREENS			
	ACKET TYPE LANGE-300	ODE BRACKET TYPE STANDARD	B3	MOTOR ORIENTATION SEVERE DUTY HORIZONTAL NO			ONE	NO NONE		PAINT BLUE (ENAMEL)		
FF-F	LANGE-300	STANDARD	БЭ	HORIZO	INTAL	NO	IN	ONE	NO	NONE	BLUE (I	INAIVIEL)
BE	EARINGS										I	
DE	ODE	GREASE	SHAF	T TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM	CTANI	DARD IEC	NONE		NONE		1045 HOT BOLLED (C 204)		CAST IRON	
6311	6211	POLTREXEM	STANL	JARD IEC		NONE	IN	ONE	1045 HOT R	1045 HOT ROLLED (C-204)		IRON
											SPACE	HEATERS
THERMOSTATS PROTECTORS			NDG RTD's BRG RTD's		THERMISTORS		CONTROL					
	NONE	NOT	N	ONE		NONE	N	ONE	F.	ALSE	1	NA .
D4	(ohmo/nh)	P2 (ahma/nh)	V1 (a	hma/nh)		V2 (ahma/nh)	Vm (c	ohms/ph)	VIDDAT	ION (in/oce)		OAT
R1 (ohms/ph) R2 (ohms/ph) 0.189 0.095		0.095		1 (ohms/ph) X2 (ohms/ph) 0.501 0.756			6.584	VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.103	0.093		.501		0.730		3.304		.130		DL
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
0						SPEED RANGE:						
Т												
E				ENCODER: NONE								
s								NONE				
*							NONE NONE PPR				PPR	
		<u> </u>					BRAKE: NONE					
PREPARED BY:				NONE NONE								
DATE: 11/27/2020				FT-LB: NA								
E00	04 DEV :	0/07/00				ļ		VOLTAGE:		ONE		HZ:
FORM: 3531 REV_4 2/27/06					UL: V - LI,ME-INS,CONST UL REC							

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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: TCA0222AE231GAA009

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

Catalog No : R843
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

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