PRODUCT INFORMATION PACKET



Model No: TCA0153AE231GAA009

Catalog No: R838

TerraMAX® Cast Iron Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM,

180L Frame, TEFC





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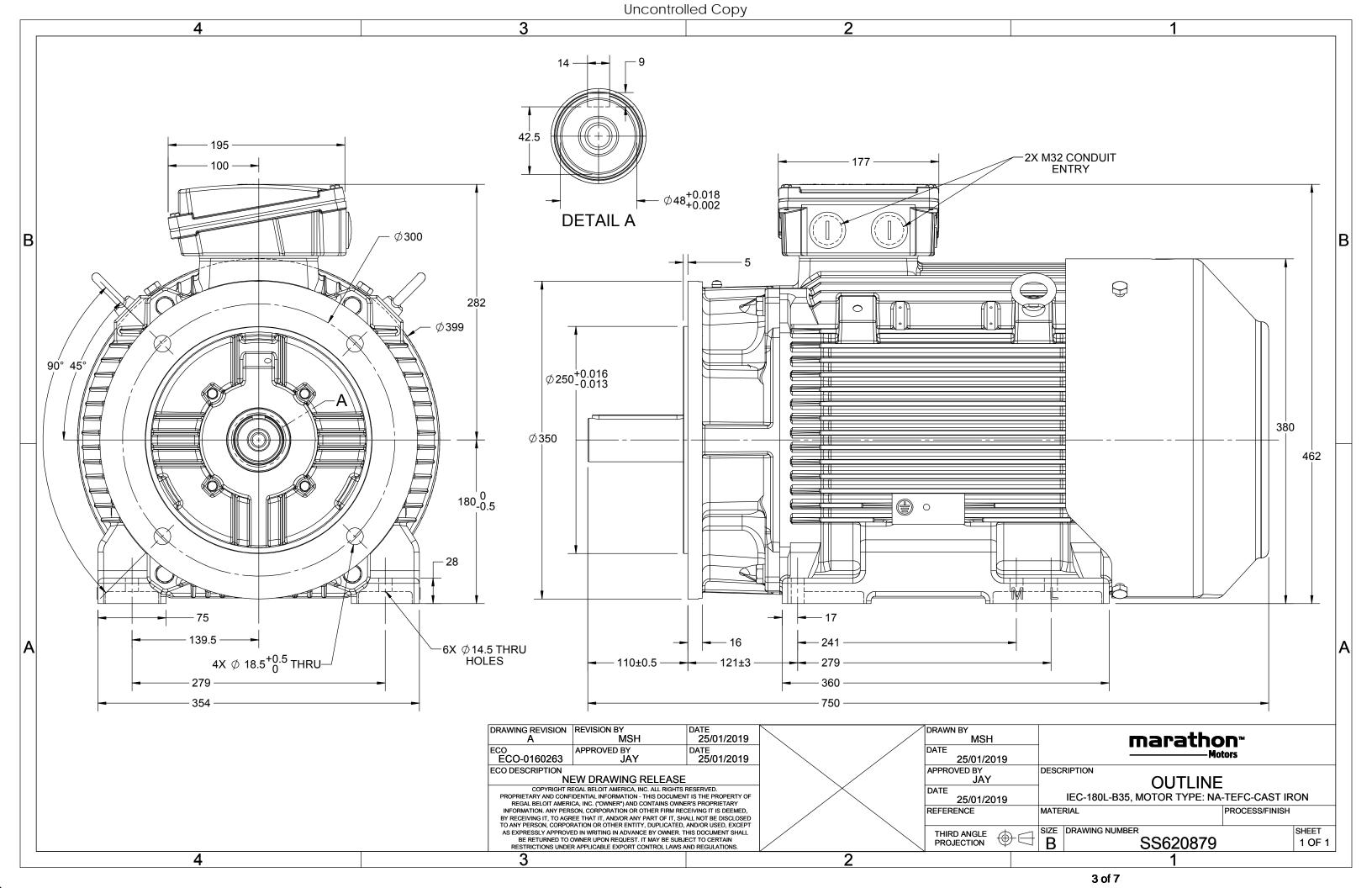
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	15.0 & 11.0 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 985 rpm	Service Factor	1.15 & 1.15
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 90.3 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	53.5/26.7 & 48/24.1 A	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	N (IEC)	KVA Code	F
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	6	Rotation	Reversible
Resistance Main	.56 Ohms	Mounting	В3
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
Outline Drawing	SS620879	Connection Drawing	8442000715

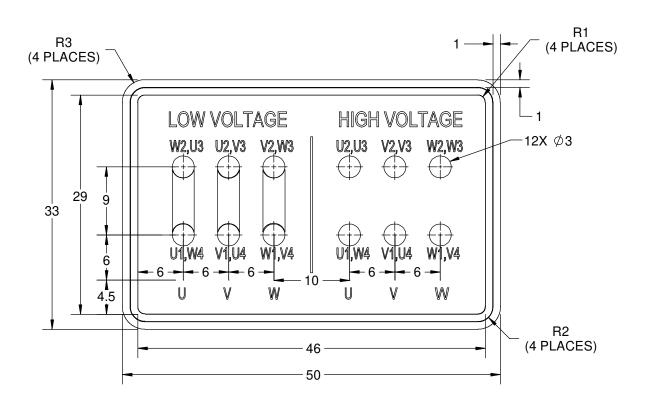
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DRAWING REVISION	REVISION BY	DATE
Α	S.MUDDA	16/11/2020
ECO	APPROVED BY	DATE
ECO-0194685	SUMANTA	16/11/2020
ECO DESCRIPTION		
	NEW DRAWING	

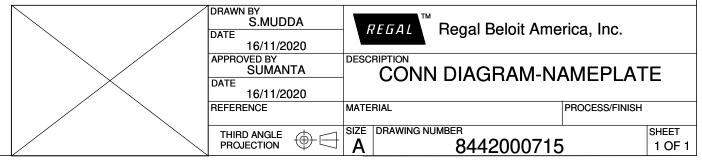
GEOMENTRIC TOLERANCE			
LINEAR DIM	>0~6	±0.1	
	>6~30	±0.2	
	>30~120	±0.3	



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[™]



CERTIFICATION DATA SHEET	F AMB (° C) 40	DESIGN N				
ORDER #: COND. DIAGRAM: 8442000677 CAT #: CAT #: CAT #: R838 OUTLINE: SS620879 CUSTOMER PART #: MOUNTING: F3 SPEED: TYPICAL MOTOR PERFORMANCE DATA	F AMB (° C)					
SPEED: TYPICAL MOTOR PERFORMANCE DATA	F AMB (° C)					
	F AMB (° C)					
HP KW SYNCRPM FLRPM FRAME ENCLOSURE TYPE KVA	F AMB (° C)					
	AMB (° C)	N				
20 15.00 1200 1180 180L TEFC TCA 180LA06						
PH HZ VOLTS AMPS START TYPE DUTY INSL S.F. 3 60/50 230/460#200/400 53.5/26.7848/24.1 LINE OR INVERTER CONT F 1.15	1 40	ELEV.(Ft.) 3300				
		3300				
	r. TYPE INV RATED					
F.L. TORQUE LR AMPS @ 460 V L.R. TORQUE B.D. TORQUE F.L. R	ISE (° C)					
89.0 LB-FT 139 152 LB-FT 171% 207 LB-FT 233% 80						
SOUND PRESSURE @ 3 FT. SOUND POWER ROTOR WK ² MAX. LOAD WK ² SAFE STALL TIME STARTS/HOUR	APROX.	MOTOR WGT				
56 dBA 65 dBA 6.2 LB-FT ² 6.2 LB-FT ² 15 SEC. 2	226	KG.				
*** SUPPLEMENTAL INFORMATION ***						
DE BRACKET TYPE ODE BRACKET TYPE MOTOR ORIENTATION SEVERE DUTY HAZARDOUS LOCATION DRIP COVER SCREENS		AINT				
FF-FLANGE-300 STANDARD B3 HORIZONTAL NO NONE NO NONE	BLUE (E	ENAMEL)				
BEARINGS GREASE SHAFT TYPE SPECIAL DE SPECIAL ODE SHAFT MATERIAL	FRAME N	MATERIAL				
BALL BALL POLYREX EM STANDARD IEC NONE NONE 1045 HOT ROLLED (C-204)	CAST	T IRON				
THERMOSTATS PROTECTORS WDG RTD'S BRG RTD'S THERMISTORS CONTROL	SPACE	HEATERS				
NONE NOT NONE NONE FALSE		NA				
R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph) X2 (ohms/ph) Xm (ohms/ph) VIBRATION (in/sec)	FL/	OAT				
0.355 0.184 0.993 1.475 20.408 0.150	O	DE				
N INVERTER TORQUE: CONSTANT 2:1/\ O INV. HP SPEED RANGE: NONE	/ARIABLE 10:1					
E ENCODER: NONE S NONE NONE	NONE	PPR				
PREPARED BY: NONE NONE						
DATE: 11/27/2020 FT-LB: NA VOLTAGE: NONE FORM: 3531 REV 4 2/27/06 UL: V-LLME-INS,CONST UL REC		HZ:				

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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: TCA0153AE231GAA009

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

Catalog No : R838

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:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22