PRODUCT INFORMATION PACKET



Model No: TCA0221AE231GAA009

Catalog No: R842

TerraMAX® Cast Iron Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

180M Frame, TEFC





Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



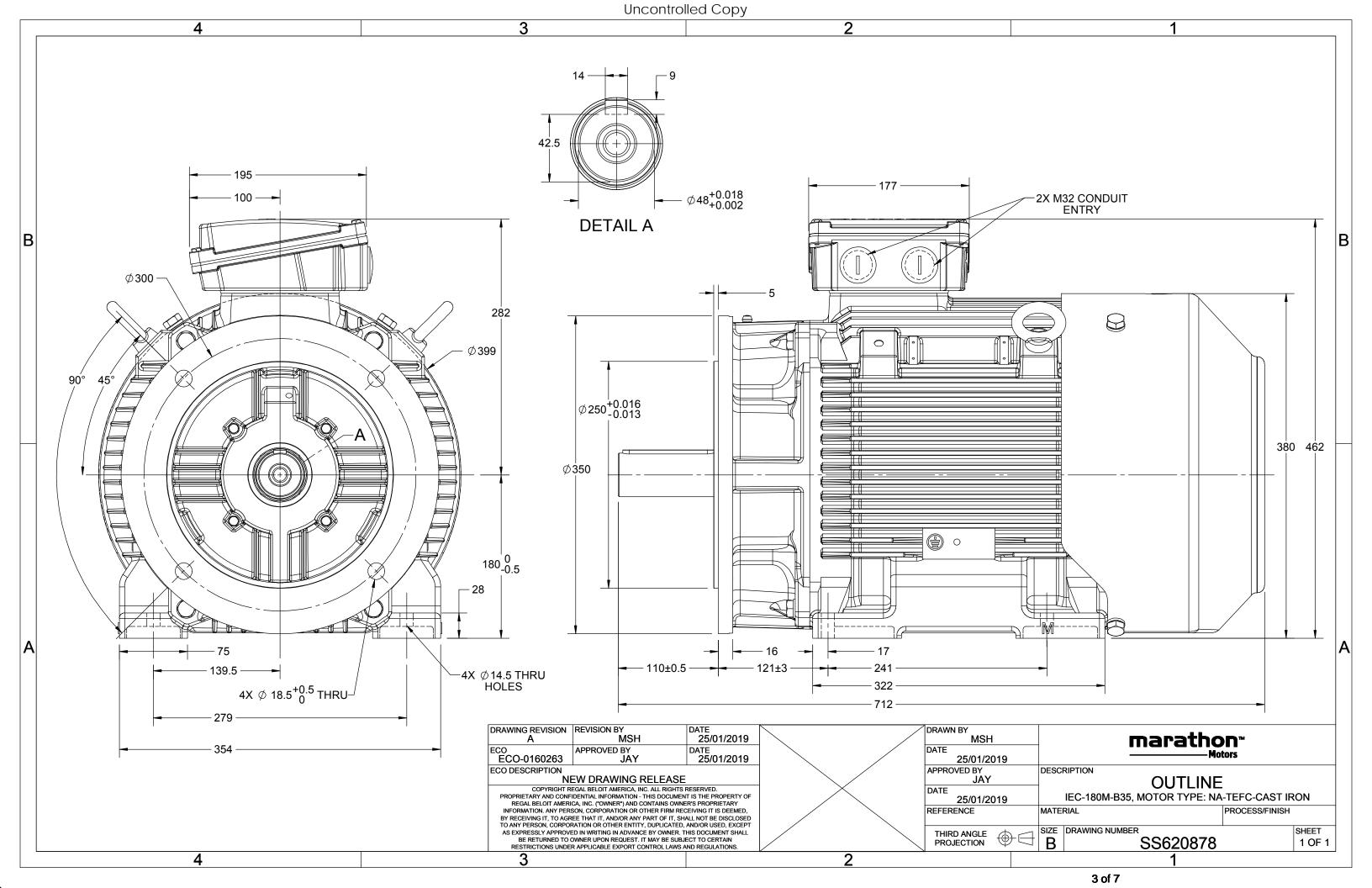
Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp			
Output KW	22.0 & 18.5 kW	Voltage	230/460 & 200/400 V			
Speed	3550 & 2955 rpm	Service Factor	1.15 & 1.15			
Frame	180M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91.7 & 92.4 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	68/34 & 68/34 A	Power Factor	88			
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	2	Rotation	Reversible			
Resistance Main	.37 Ohms	Mounting	B3			
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	SS620878	Connection Drawing	8442000715			

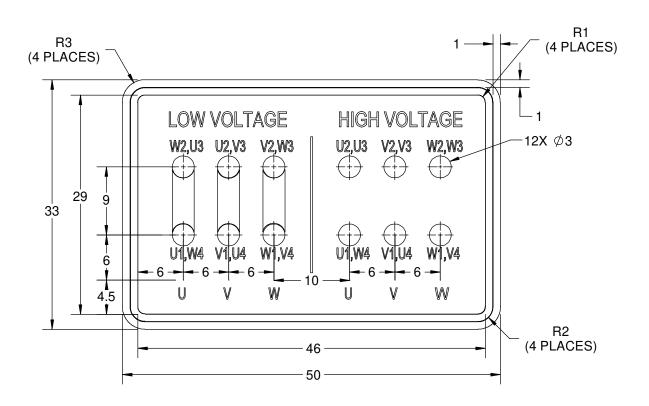
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/22/2023



PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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							

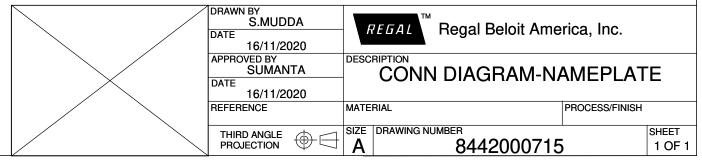
GEOMENTRIC TOLERANCE						
	>0~6	±0.1				
LINEAR DIM	>6~30	±0.2				
	>30~120	±0.3				



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[™]



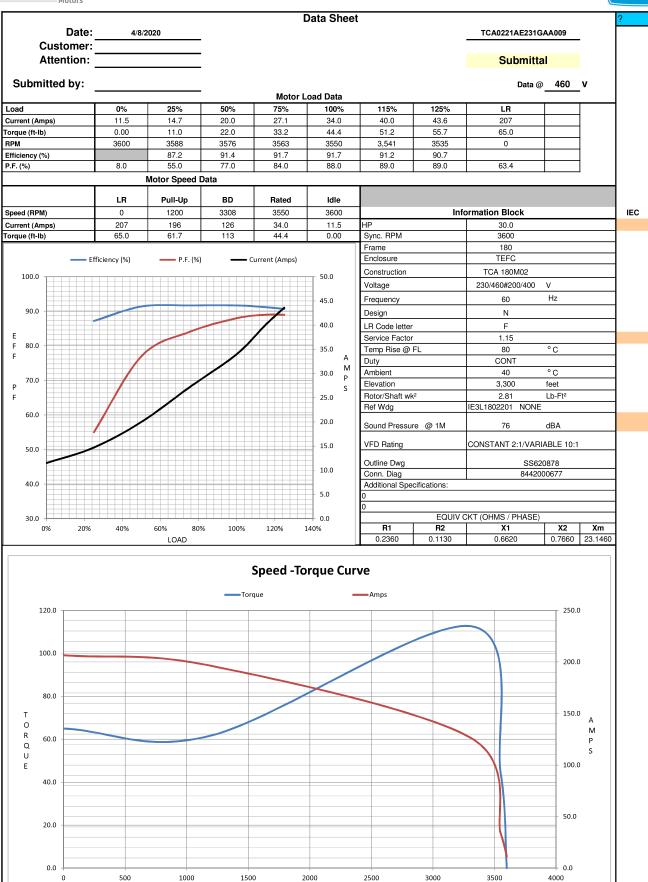
					CEF	RTIFICATION DATA S	HEET		P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:				
CUSTOME ORDER #: CONN. DIA OUTLINE: WINDING: SPEED:	AGRAM:	8442000677 SS620878 IE3L1802201	NONE				CUSTO	CAT #: MER PART #: MOUNTING:	TCA0221AE231G	AA009 8842			
	1011	0/4/0 PPM			YPICAL	MOTOR PERFORMA			7/05	1014.00	\n=	DEGION	
HP	KW	SYNC RPM		. RPM		FRAME		OSURE	TYPE	KVA CODE		DESIGN	
30	22.00	3600	3	3550		180M	TEFC		TCA 180MA02	F	N		
PH 3	HZ 60/50	VOLTS 230/460#200/400		MPS 4&68/34	l	START TYPE LINE OR INVERTER		UTY ONT	INSL F	S.F. 1.15	AMB (° C) 40	ELEV.(Ft.) 3300	
	F.L. EFF		3/4 LD EFF	91.7		1/2 LD EFF	91.4	GTD EFF		ELECT. T			
	F.L. PF	88.0	3/4 LD PF	84.0		1/2 LD PF	77.0	90.5		SQ CAGE INV	RATED		
	. TORQUE	LR AMPS @	460 V		L.R. TORQUE B.D. TOR		B.D. TOR	RQUE F.L. RISE		(° C)			
44.4	LB-FT	207		65.0	LB-FT	146%	113	LB-FT	255%	80			
SOUND PRESSURE @ 3 FT. SOUND POWER			FOR WK ² MAX. LOAD WK ²				rs/Hour	APROX.	MOTOR WGT				
76 dBA 85 dBA 2.81 LB-FT ² 2.81 LB-FT ²				15	SEC.		2	209	KG.				
					*** SU	PPLEMENTAL INFORMA							
DE BRACKET TYPE ODE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT			
FF-F	LANGE-300	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE BLUE (E		NAMEL)	
DE BE	EARINGS ODE	GREASE	SHAF	Т ТҮРЕ		SPECIAL DE	SPEC	IAL ODE	SHAFT	SHAFT MATERIAL		FRAME MATERIAL	
BALL 6311	BALL 6211	POLYREX EM	STANI	DARD IEC		NONE	N	ONE	1045 HOT ROLLED (C-204)		CAST IRON		
	RMOSTATS NONE	PROTECTORS NOT				NTROL ALSE	SPACE HEATERS NA						
R1 (ohms/ph) R2 (ohms/ph)		X1 (o	phms/ph) X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT				
	0.236	0.113		.662		0.766		3.146		.150	ODE		
* N O T								INV. HI	P SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1		
E S *								ENCODER: NONE NONE			NONE	PPR	
PREPARED BY:									,				
FORM: 3531 REV_4 2/27/06				VOLTAGE: NONE HZ: 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: TCA0221AE231GAA009

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

Catalog No : R842

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

C € 22