## **PRODUCT INFORMATION PACKET**

# marathon°

Model No: TCA0553AE231GAA009 Catalog No: R859 TerraMAX® Cast Iron Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 280M Frame, TEFC



©2025 Marathon, All Rights Reserved.

Product Information Packet: Model No: TCA0553AE231GAA009, Catalog No:R859 TerraMAX® Cast Iron Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 280M Frame, TEFC

## marathon

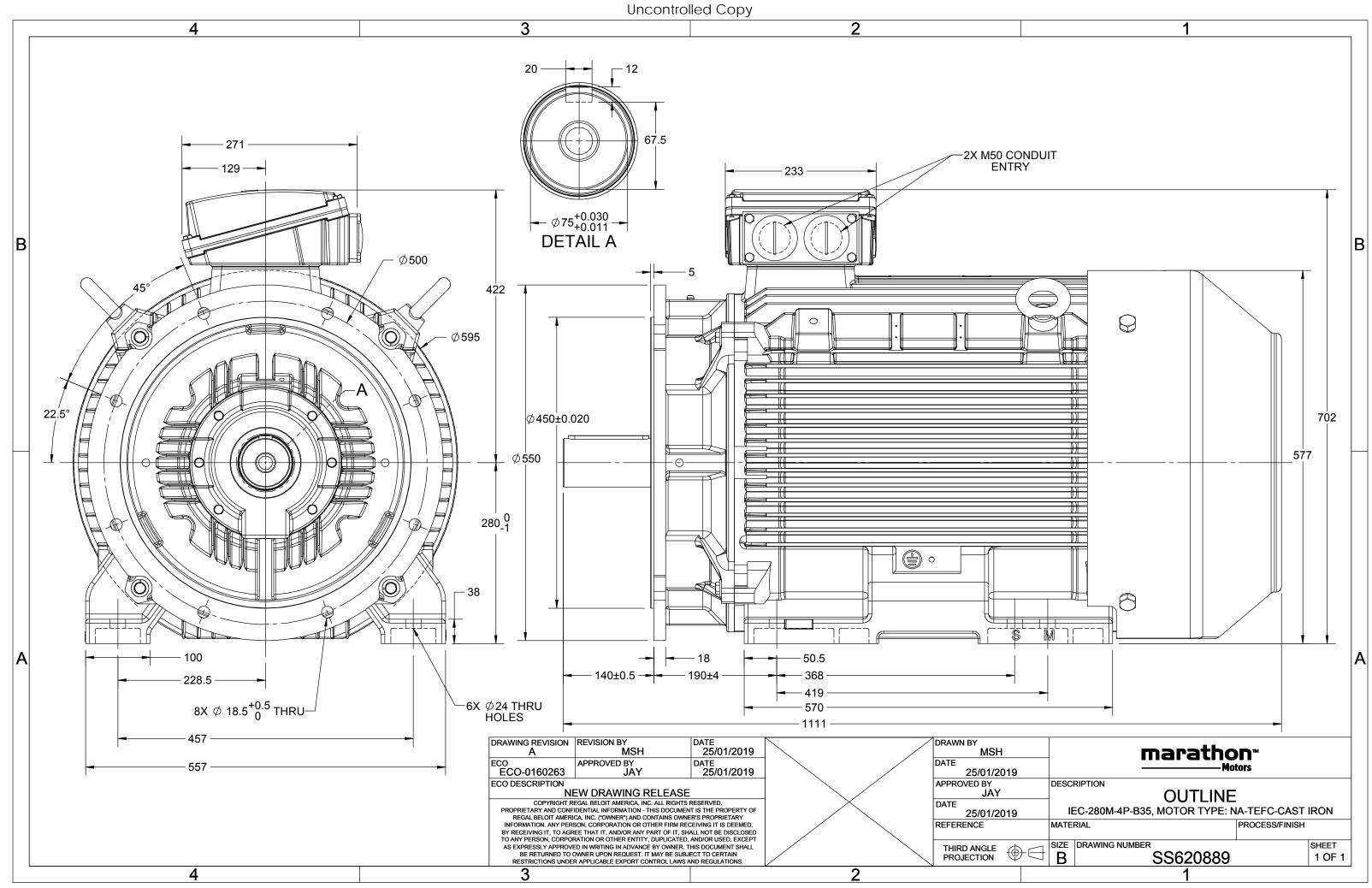
#### Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp 230/460 & 200/400 V			
Output KW	55.0 & 45.0 kW	Voltage				
Speed	1190 & 990 r/min	Service Factor	1.15 & 1.15			
Frame	280M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	94.5 & 93.7 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	174/87 & 166/83 A	Power Factor	84			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	G			
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317			
UL	Recognized	CSA	N			
CE	Y	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

#### **Technical Specifications**

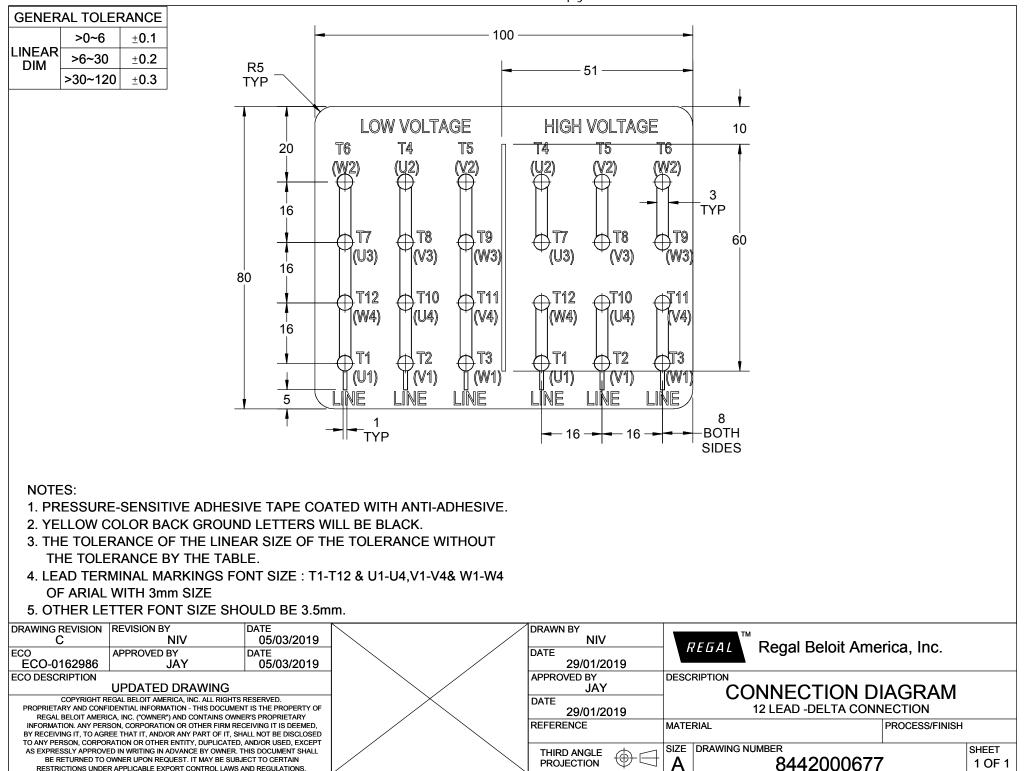
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	6	Rotation	Reversible			
Resistance Main	.07 O	Mounting	B3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	75.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing 8442000677		Outline Drawing	SS620889			

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/17/2025



3 of 7

#### **Uncontrolled** Copy



PROJECTION

RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

1 OF 1

Α

Uncontrolled Copy



Г

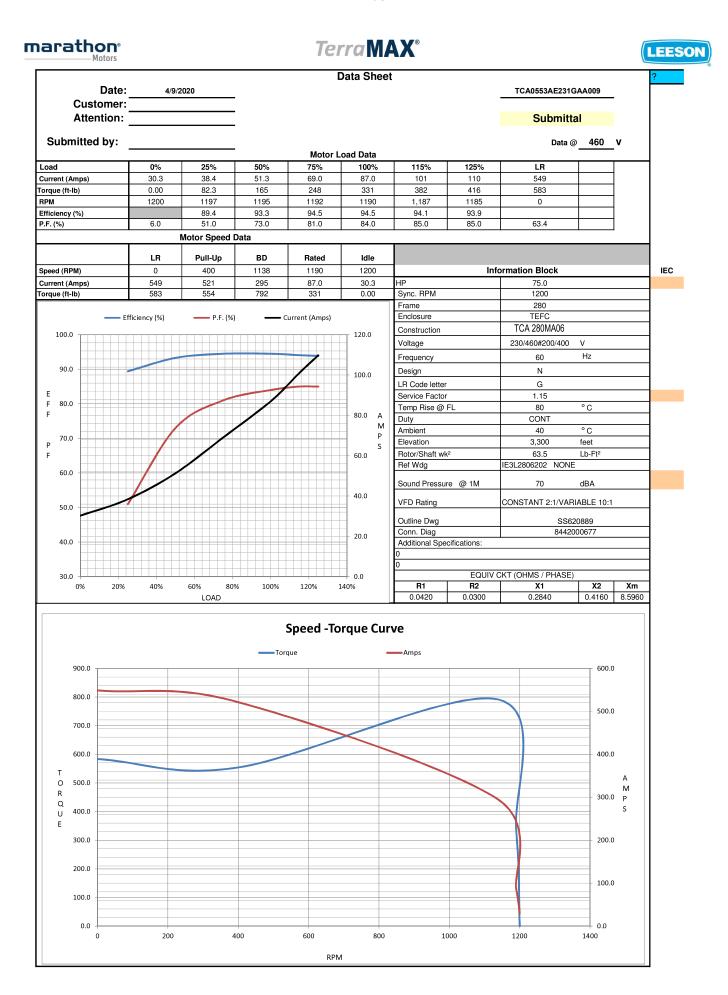




									P.O. BOX 8003				
				WAUSAU, WI 54401-8003									
							PH. 715-675-331						
										•			
									DATA VOLTS:	460			
					CE	RTIFICATION DATA S	HEET						
					02								
CUSTOME				_				OMER P.O. #:					
ORDER #:				_			REFERENCE MODEL #:						
CONN. DI		8442000677						CAT #:		859			
OUTLINE:		SS620889					CUSTO	MER PART #:					
WINDING:		IE3L280620	2 NONE	1				MOUNTING:	F3				
SPEED:				_		. MOTOR PERFORMA		<b>T</b> 4					
HP	KW	SYNC RPM	FL RPM			FRAME	FRAME ENCLOSURE		TYPE	KVA CODE		DESIGN	
75	55.00	1200		1190		280M	т	EFC	TCA 280MA06	G	i	Ν	
PH	HZ	VOLTS		MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)	
3	60/50	230/460#200/400	174/8	7&166/83		LINE OR INVERTER	C	ONT	F	1.15	40	3300	
	F.L. EFF	94.5	3/4 LD EFF	94.5		1/2 LD EFF	93.3	GTD EFF		ELECT.	TYPE		
	F.L. PF	84.0	3/4 LD PF			1/2 LD PF	73.0	93.7		SQ CAGE IN	V RATED		
F.L	TORQUE	LR AMPS @	2 460 V		L.R. TORQUE			B.D. TOR	ORQUE F.L. F		ISE (° C)		
331 LB-FT 549 583		583	LB-FT 176% 7		792 LB-FT 239%		80						
SOUND	PRESSURE @ 3												
	FT.	SOUND POWER		OR WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>		TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT	
68	dBA	77 <b>dBA</b>	63.5	LB-FT <sup>2</sup>	63.5	LB-FT <sup>2</sup>	15	SEC.		2	699	KG.	
					*** SL	IPPLEMENTAL INFORMA	TION ***						
			MOUNT					ARDOUS					
DE BR	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORI	DRIENTATION SEVERE DUTY			CATION	DRIP COVER	SCREENS		INT	
FF-F	LANGE-500	STANDARD	B3	HORIZO	NTAL	NO	N	IONE	NO	NONE	BLUE (E	NAMEL)	
											•		
B	EARINGS	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL			
DE	ODE	OREADE		SFECIAL DE		SPECIAL ODE		SHALL		FRAME MATERIAL			
BALL	BALL	SG S5-V100	STAN	STANDARD IEC		NONE		IONE	1045 HOT F	OLLED (C-204)	CAST	CAST IRON	
6314	6314	00 00-1100	OTAN	BARBIEG	NONE		NONE		1043 HOT ROLLED (C-204)		0/101	CASTINON	
											SPACE	HEATERS	
		PROTECTORS	WDG RTD's		BRG RTD's			MISTORS	CONTROL				
	NONE	NOT	1	IONE		NONE	N	IONE	F	ALSE	N	IA	
			1		1								
R1 (ohms/ph)		R2 (ohms/ph)		ohms/ph)				ohms/ph)	VIBRATION (in/sec) 0.150		FLOAT ODE		
	0.042	0.030		0.284		0.416	5	8.596	(	0.150	0	DE	
N										CONSTANT 2.10/A			
N O					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1								
т						INV. HP SPEED RANGE: NONE							
									NONE				
E							-	ENCODER:	NONE				
s *								NONE					
•								NONE	NONE		NONE	PPR	
						BRAKE:							
1	PREPARED BY:								NONE	NO	NE		
	DATE:	11/27/2020						FT-LB:		NA			
							VOLTAGE: NONE HZ:   UL: V - LI,ME-INS,CONST UL REC HZ: HZ:						
+ORM: 35	531 REV_4	2/27/06					UL:	v - LI,ME-INS,	CONST UL REC				

REGAL

#### Uncontrolled Copy





### **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 : TCA0553AE231GAA009

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

Catalog No : R859

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer