PRODUCT INFORMATION PACKET

Model No: TCA0373AE231GAA009 Catalog No: R850 TerraMAX® Cast Iron Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 250M Frame, TEFC



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Motors



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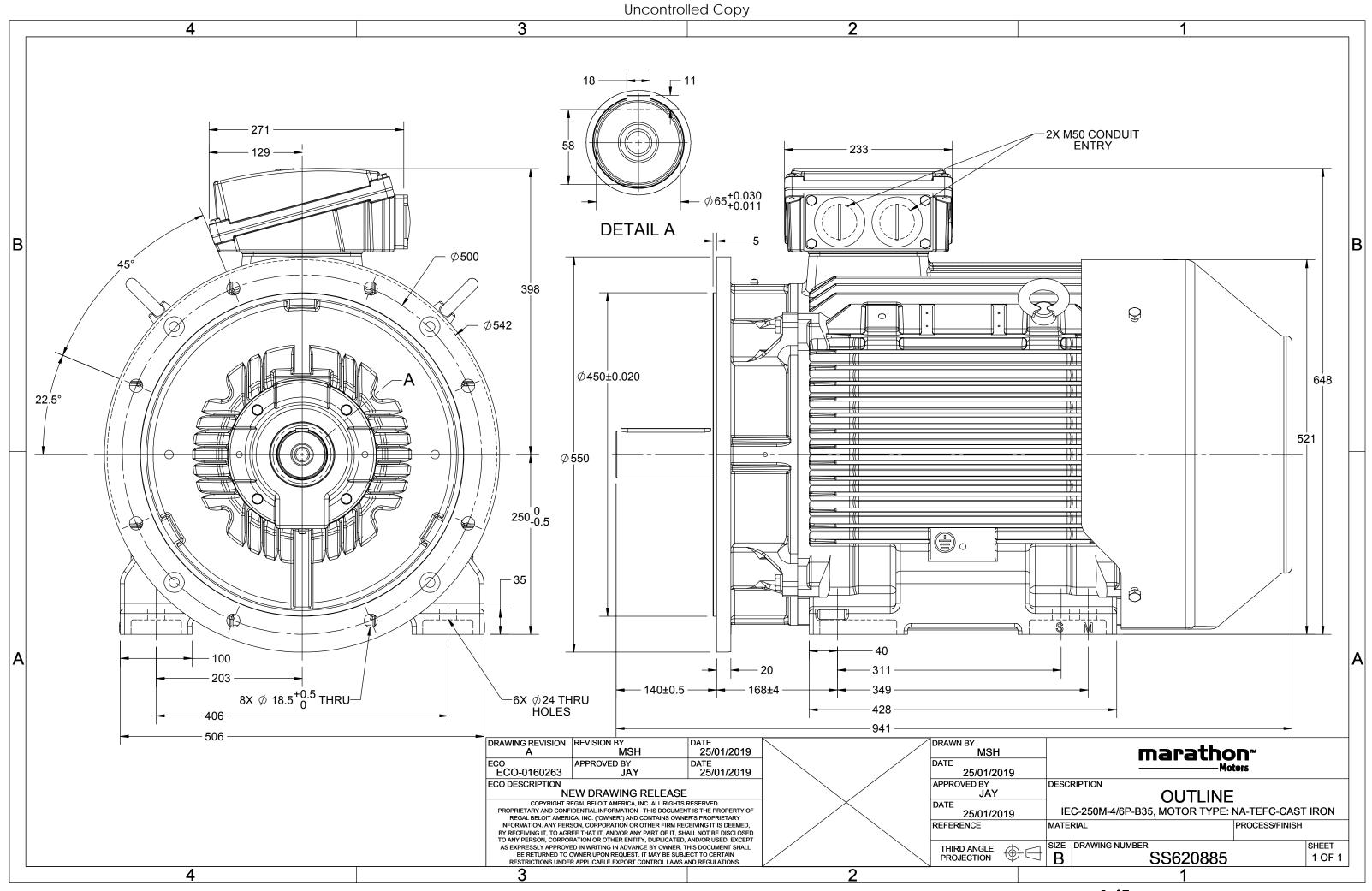
Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp		
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 200/400 V		
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.15		
Frame	250M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Efficiency	94.1 & 92.9 %		
Ambient Temperature	40 °C	Frequency	60 & 50 Hz		
Current	124/62 & 120/60 A	Power Factor	80		
Duty	Continuous	Insulation Class	F		
Design Code	N (IEC)	KVA Code	J		
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		

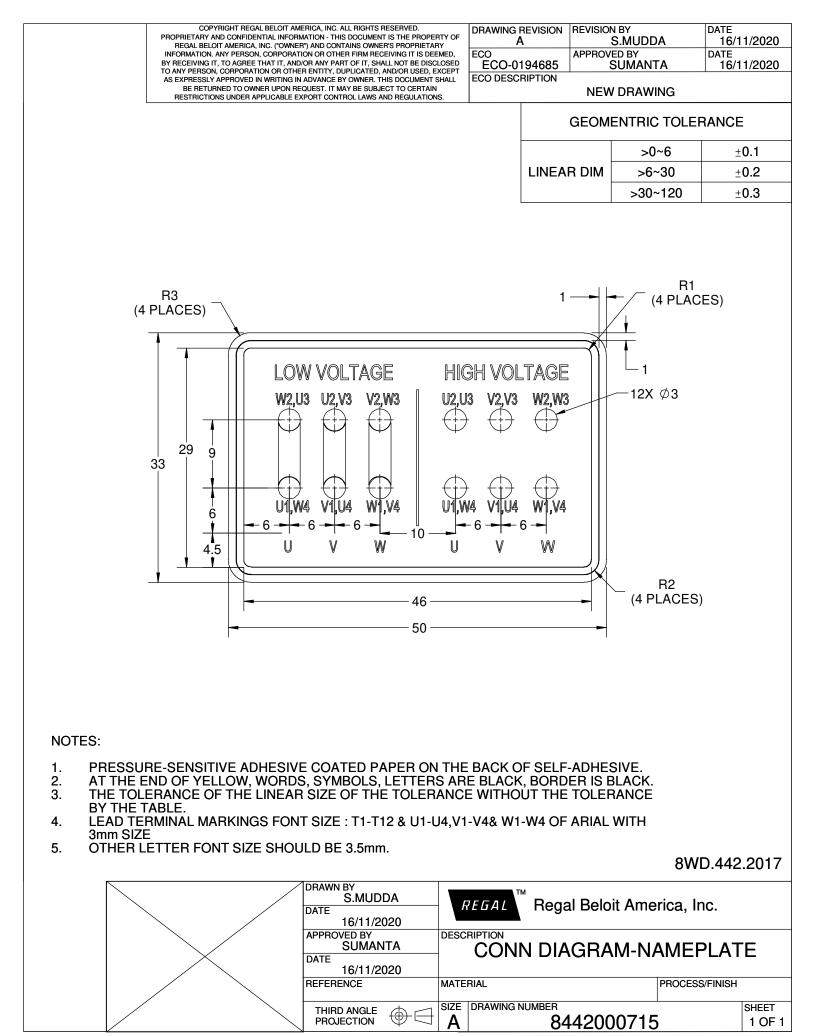
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	6	Rotation	Reversible			
Resistance Main	.14 Ohms	Mounting	B3			
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			
Connection Drawing	8442000715	Outline Drawing	SS620885			

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									P.O. BOX 8003			
					WAUSAU, WI 54401-8003							
									PH. 715-675-331	1		
									DATA VOLTS:	460		
					CE	RTIFICATION DATA S	HEET					
CUSTOME	R:						CUST	OMER P.O. #:				
ORDER #:				RE			REFERENCE MODEL #: CAT #:					
CONN. DI		8442000677										
OUTLINE: SS620885			CUSTO			MER PART #:						
WINDING:		IE3L2506201	1 NONE	1				MOUNTING:				
SPEED:												
		-		-	TYPICAL	MOTOR PERFORMA	NCE DA	TA				
					1							
HP	ĸw	SYNC RPM	F	RPM	FRAME		ENCLOSURE		TYPE	KVA C	ODE	DESIGN
50	37	1200		1190		250M		EFC	TCA 250MA06	J		N
PH	HZ	VOLTS	T	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400		2&120/60		LINE OR INVERTER		ONT	F	1.15	40	3300
	00/00	200/100//200/100	12.00	20120/00							10	0000
	F.L. EFF	94.1	3/4 LD EFF	94.1	1	1/2 LD EFF	92.5	GTD EFF		ELECT.	TYPE	
	F.L. PF		3/4 LD PF			1/2 LD PF	62.0	93.2		SQ CAGE IN		
F.L. TORQUE LR AMPS @ 460 V		L.R. TORQUE		B.D. TOR	RQUE F.L. RIS		E (° C)					
221 LB-FT 496			604 LB-FT 273%		707	LB-FT	320% 80		T /			
SOUND	PRESSURE @ 3											
	FT.	SOUND POWER		OR WK ²		MAX. LOAD WK ²		TALL TIME	STAR	TS/HOUR	APROX.	MOTOR WGT
68	dBA	77 dBA	40.0	LB-FT ²	40	LB-FT ²	15	SEC.		2	535	KG.
					*** SL	PPLEMENTAL INFORMA						
		MOUNT TYPE			HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT			
	LANGE-500	ODE BRACKET TYPE STANDARD	B3	HORIZO		NO		IONE	NO	NONE		IN I ENAMEL)
FF-F	LANGE-500	STANDARD	D3	HORIZO	INTAL	NO	IN	IONE	NO	NONE	BLUE (INAMEL)
В	EARINGS		1								1	
DE	ODE	GREASE	SHA	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL											
6314	6314	SG S5-V100	STAN	DARD IEC	NONE NONE		IONE	1045 HOT ROLLED (C-204)		CAST IRON		
0011												
THE	RMOSTATS	PROTECTORS	WD	G RTD's		BRG RTD's	THER	MISTORS	со	NTROL	SPACE	HEATERS
	NONE	NOT	1	IONE		NONE	N	IONE	E.	ALSE	N	IA
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	ns/ph) X2 (ohms/ph)		Xm (o	ohms/ph)	VIBRATION (in/sec)		FLOAT	
	0.085	0.045		0.289		0.437	8	8.736	C	.150	0	DE
*												
N					INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1							
0						INV. HP SPEED RANGE: NONE						
т												
E								ENCODER:	NONE			
S				NONE								
*								NONE			NONE	PPR
					BRAKE:							
PREPARED BY:							NONE	NO	NE			
1	DATE:	11/27/2020						FT-LB:		NA		
FORM		0/07/00					VOLTAGE: NONE HZ: UL: V - LI,ME-INS,CONST UL REC HZ: HZ:					
FORM: 35	31 REV_4	2/27/06					UL:	v - LI,ME-INS,	CONST UL REC			

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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 : TCA0373AE231GAA009

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

Catalog No : R850

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

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Authorized Representative in the Community:

Julian Clark Marketing Engineer