PRODUCT INFORMATION PACKET

Model No: SCA7P52A3111GAAD01 Catalog No: SCA7P52A3111GAAD01 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 415 V, 1500 RPM, 132M Frame, TEFC



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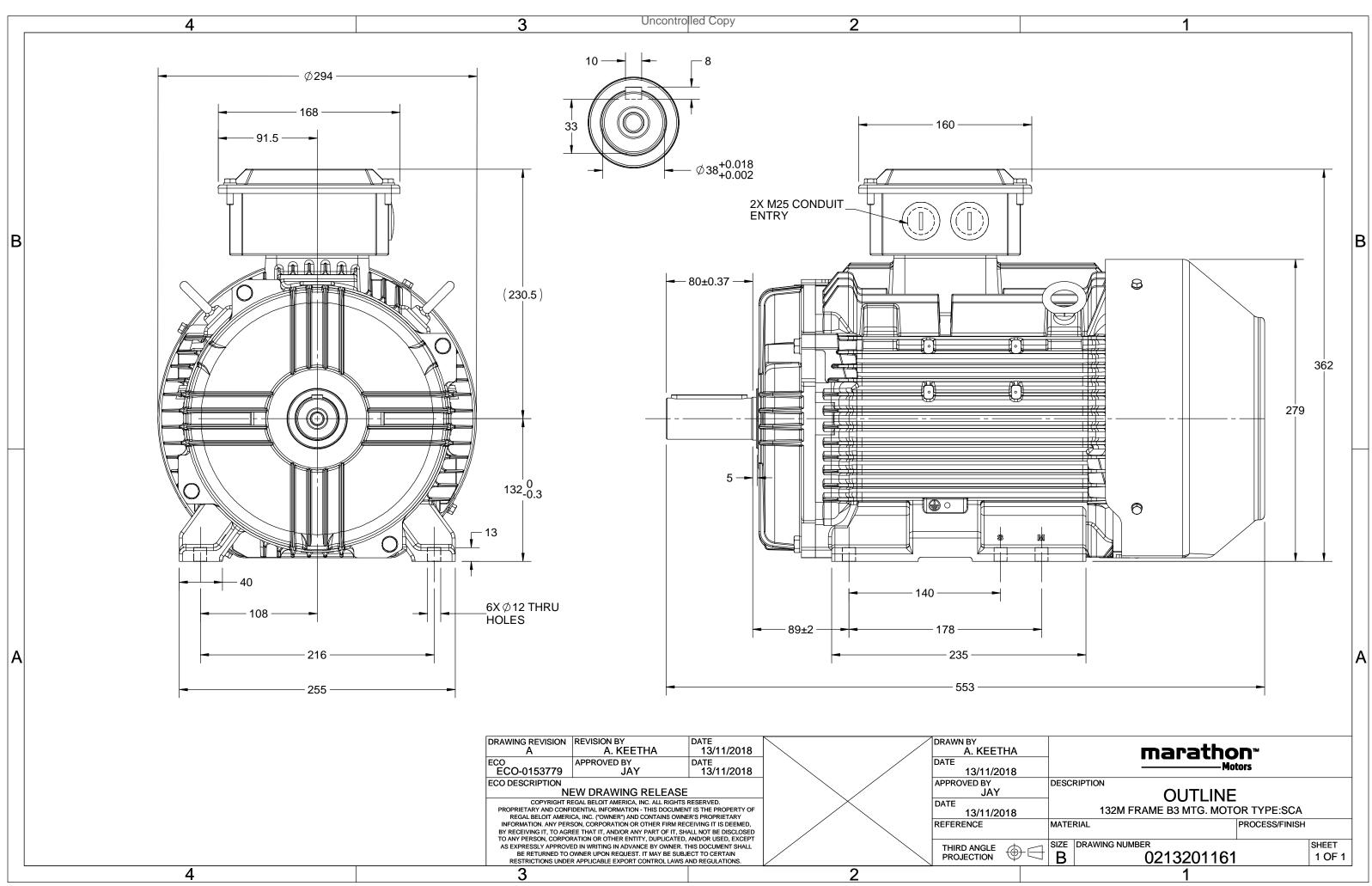
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW		
Frequency	50 Hz	Voltage	415 V		
Current	13.9 A	Speed	1454 rpm		
Service Factor	1	Phase	3		
Efficiency	88.7 %	Power Factor	0.85		
Duty	S1	Insulation Class	F		
			Totally Enclosed Fan Cooled		
Frame	132M	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	132M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	50 °C 6208		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	553 mm	Frame Length	290 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0213201161

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U	Δ / Y	f	Р	Р	I.	n	Т	IE	9	6 EFF at	t load	ł	PF	at lo	ad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Δ	50	7.5	10	13.9	1454	49.24	IE2	-	88.7	88.7	89.3	0.85	0.80	0.69	7.8	3.4	3.5
																I		
Motor	type				SCA				Deg	ree of p	protecti	on				IP 55		
Enclos	ure				TEFC		Mounting type											
Frame	Materia	I			Cast Ir	on		Cooling method						IC 411				
Frame	size				132N	1			Mo	tor wei	ght - app	orox.				98		
Duty					S1				Gro	ss weig	ht - app	rox.				101		
Voltag	e variatio	on *			± 10%	6			Mo	tor iner	tia					0.0320		kgm ²
Freque	ency varia	ation *			± 5%	i i			Loa	d inerti	а				Custo	omer to Provi	de	
Combi	ned varia	ation *			10%				Vib	ration le	evel					1.6		mm/s
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor)	67		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Star	ting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	-50		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	esistanc	ce)	70 [Clas	s B]		К	LRN	vithstar	nd time	(hot/co	ld)			8/13		s
Altitud	e above	sea leve	el		1000)		meter	Dire	ection o	of rotatio	on			Bi-directional			
Hazard	lous area	a classif	ication		NA				Star	ndard re	otation				Cloc	ckwise form D	E	

Hazardous area classification	NA	Standard rotation	Clockwise form DE
Zone classification	NA	Paint shade	RAL 5014
Gas group	NA	Accessories	
Temperature class	NA	Accessory - 1	-
Rotor type	Aluminum Die cast	Accessory - 2	-
Bearing type	Anti-friction ball	Accessory - 3	-
DE / NDE bearing	6308-2Z / 6208-2Z	Terminal box position	ТОР
Lubrication method	Greased for life	Maximum cable size/conduit size	1R x 3C x 16mm²/2 x M25 x 1.5
Type of grease	NA	Auxiliary terminal box	NA

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	Technical data are subject to change. There may be discrepancies between calculated and name plate values.											
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC						
Standards	-	-	IS 12615 : 2018	-	-	-						

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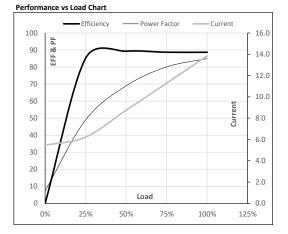
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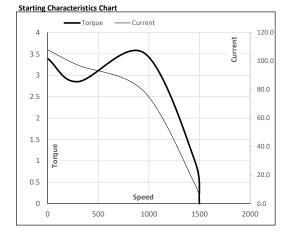
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	7.5	10.0	13.9	1454	5.02	49.24	IE2	50	S1	1000	0.0320	98.0

WOLDF LOad Da	d						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.5	6.2	8.7	11.3	13.9	
Torque	Nm	0.0	12.0	24.1	36.4	49.2	
Speed	r/min	1500	1489	1478	1467	1454	
Efficiency	%	0.0	85.2	89.3	88.7	88.7	
Power Factor	%	7.3	49.0	69.0	80.1	84.9	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	954	1454	1500	
Current	А	107.9	97.1	78.6	13.9	5.5	
Torque	pu	3.4	2.9	3.5	1	0	



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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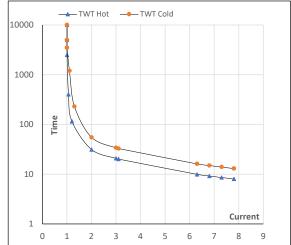
Model No. SCA7P52A3111GAAD01

Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	7.5	10	13.9	1454	5.02	49.24	IE2	50	S1	1000	0.0320	98

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	31	21	16	12	9	8
TWT Cold	S	10000	55	34	27	20	15	13
Current	pu	1	2	3	4	5	6	7.8

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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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 : SCA7P52A3111GAAD01

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

Catalog No : SCA7P52A3111GAAD01

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