## **PRODUCT INFORMATION PACKET**

Model No: SCAP753A3111GAAD01 Catalog No: SCAP753A3111GAAD01 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC



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Product Information Packet: Model No: SCAP753A3111GAAD01, Catalog No:SCAP753A3111GAAD01 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 415 V, 1000 RPM, 90S Frame, TEFC

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### Nameplate Specifications

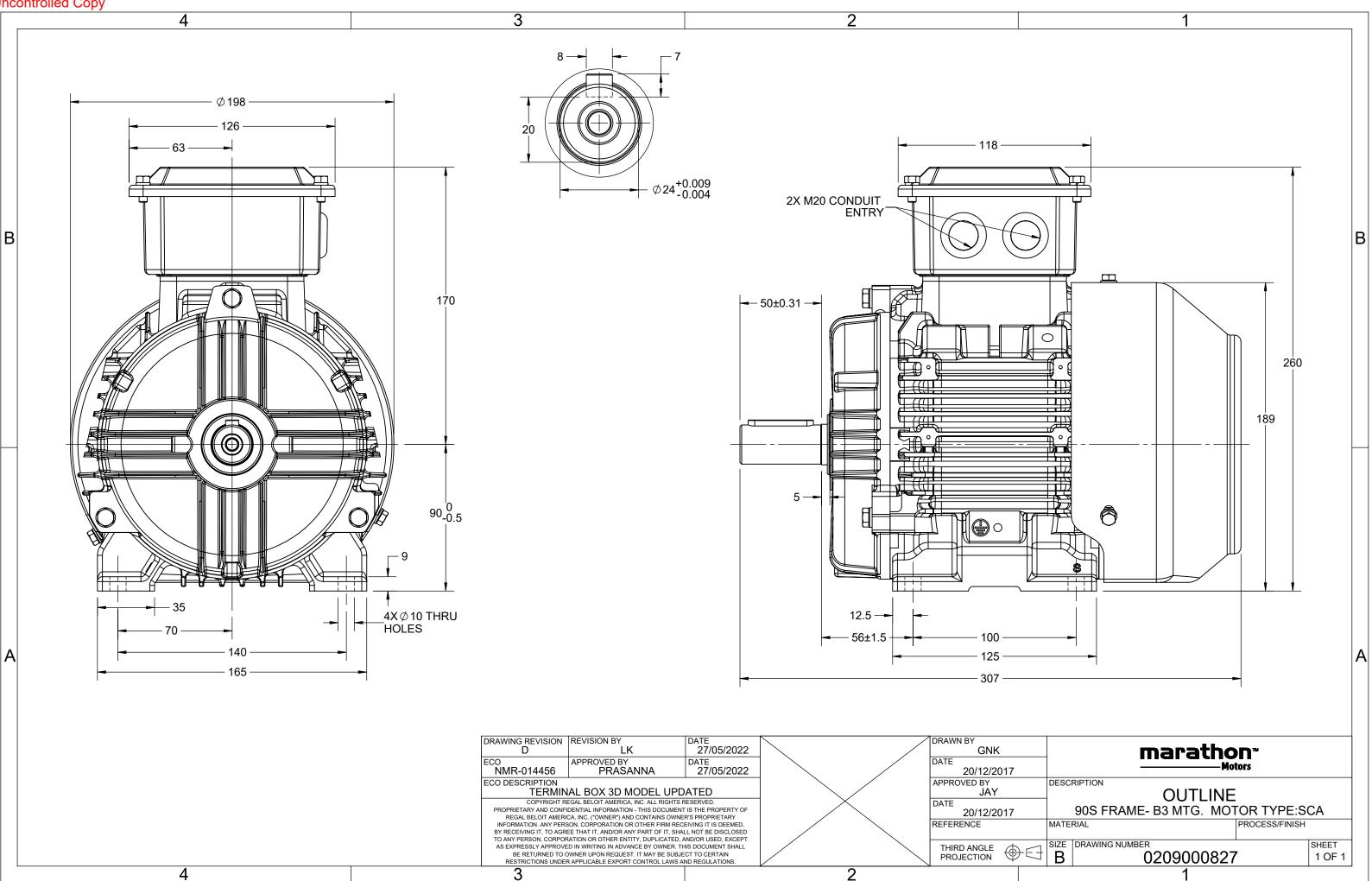
Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	415 V
Current	2.0 A	Speed	929 rpm
Service Factor	1	Phase	3
Efficiency	75.9 %	Power Factor	0.68
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6205	Ambient Temperature Opp Drive End Bearing Size	50 °C 6205
		· · ·	
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0209000827

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### Model No. SCAP753A3111GAAD01

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	Y	50	0.75	1.0	2.0	929	7.83	IE2	-	75.9	75.9	69.1	0.68	0.56	0.41	3.9	2.5	2.6
Motor	type				SCA				Deg	ree of	protecti	on				IP 55		
Enclos	ure				TEFC	-			Mo	unting	type					IM B3		
Frame	Materia	I			Cast Ir				Coc	oling me	ethod					IC 411		
Frame	size				90S				Mo	tor wei	ght - apj	orox.				23		kg
Duty					S1				Gro	ss weig	sht - app	rox.				24		kg
Voltag	e variatio	on *			± 109	%			Mo	tor iner	tia					0.0036		kgm <sup>2</sup>
Freque	ency vari	ation *			± 5%	Ď			Loa	d inerti	а				Cust	omer to Provid	e	
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design	n				Ν				Noi	se level	(1mete	er distar	nce fron	n motor	)	55		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	tion class	5			F				Star	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to -	+50		°C	Тур	e of co	upling					Direct		
Tempe	erature ri	ise (by i	resistan	ce)	70 [ Clas	s B ]		К	LR v	withsta	nd time	(hot/co	ld)			20/40		s
Altitud	le above	sea lev	el		1000	)		meter	Dire	ection c	of rotatio	on			B	i-directional		
Hazaro	dous area	a classif	fication		NA				Sta	ndard r	otation				Clo	ckwise form DE		
	Zone cl	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Acc	cessory -	- 1				-		
Rotor	type			A	uminum l	Die cast				Acc	cessory -	- 2				-		
Bearin	g type			/	Anti-frictio	on ball				Acc	cessory -	- 3				-		
DE / N	DE beari	ng		62	05-2Z /	6205-2Z			Ter	minal b	ox posit	ion				ТОР		
Lubrica	ation me	thod		(	Greased f	or life					cable siz		uit size	1R	x 3C x 3	10mm²/2 x M2	0 x 1.5	
Type c	of grease				NA				Aux	iliary te	erminal l	box				NA		
$I_A/I_N$ -	Locked R	otor Cu	urrent /	Rated C	urrent				Тк/Т	Г <sub>N</sub> - Bre	akdown	Torque	/ Rated	d Torque	9			

 $T_{\rm A}/T_{\rm N}$  - Locked Rotor 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	ta are subject t	o change. There may be discrepai	ncies between calculated an	d name plate values.		
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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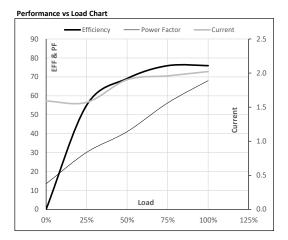


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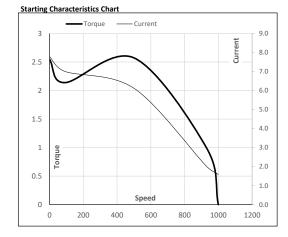
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	2.0	929	0.80	7.83	IE2	50	S1	1000	0.0036	23

Motor	Load	Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.6	1.6	1.9	2.0	2.0	
Torque	Nm	0.0	1.8	3.7	5.6	7.8	
Speed	r/min	1000	983	967	949	929	
Efficiency	%	0.0	55.0	69.1	75.9	75.9	
Power Factor	%	13.5	30.1	41.0	56.2	68.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	91	502	929	1000							
Current	А	7.8	7.0	6.1	2.0	1.6							
Torque	pu	2.5	2.1	2.6	1	0							



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

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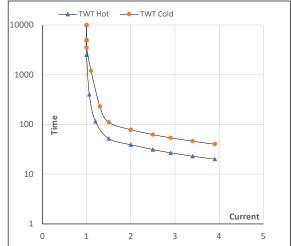
#### Model No. SCAP753A3111GAAD01

Enclosure	U	Δ / Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	415	Y	50	0.75	1.0	2.0	929	0.80	7.83	IE2	50	S1	1000	0.0036	23

#### Motor Speed Torque Data

	FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
s	10000	52	39	31	26	22	20
s	10000	110	78	62	53	45	40
pu	1	1.5	2	2.5	3	3.5	3.9
	s	s 10000 s 10000	s 10000 52 s 10000 110	s 10000 52 39 s 10000 110 78	s 10000 52 39 31 s 10000 110 78 62	s 10000 52 39 31 26 s 10000 110 78 62 53	s 10000 52 39 31 26 22 s 10000 110 78 62 53 45

#### 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 : SCAP753A3111GAAD01

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

Catalog No : SCAP753A3111GAAD01

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