## **PRODUCT INFORMATION PACKET**

Model No: SCA5P53A1121GAA001 Catalog No: SCA5P53A1121GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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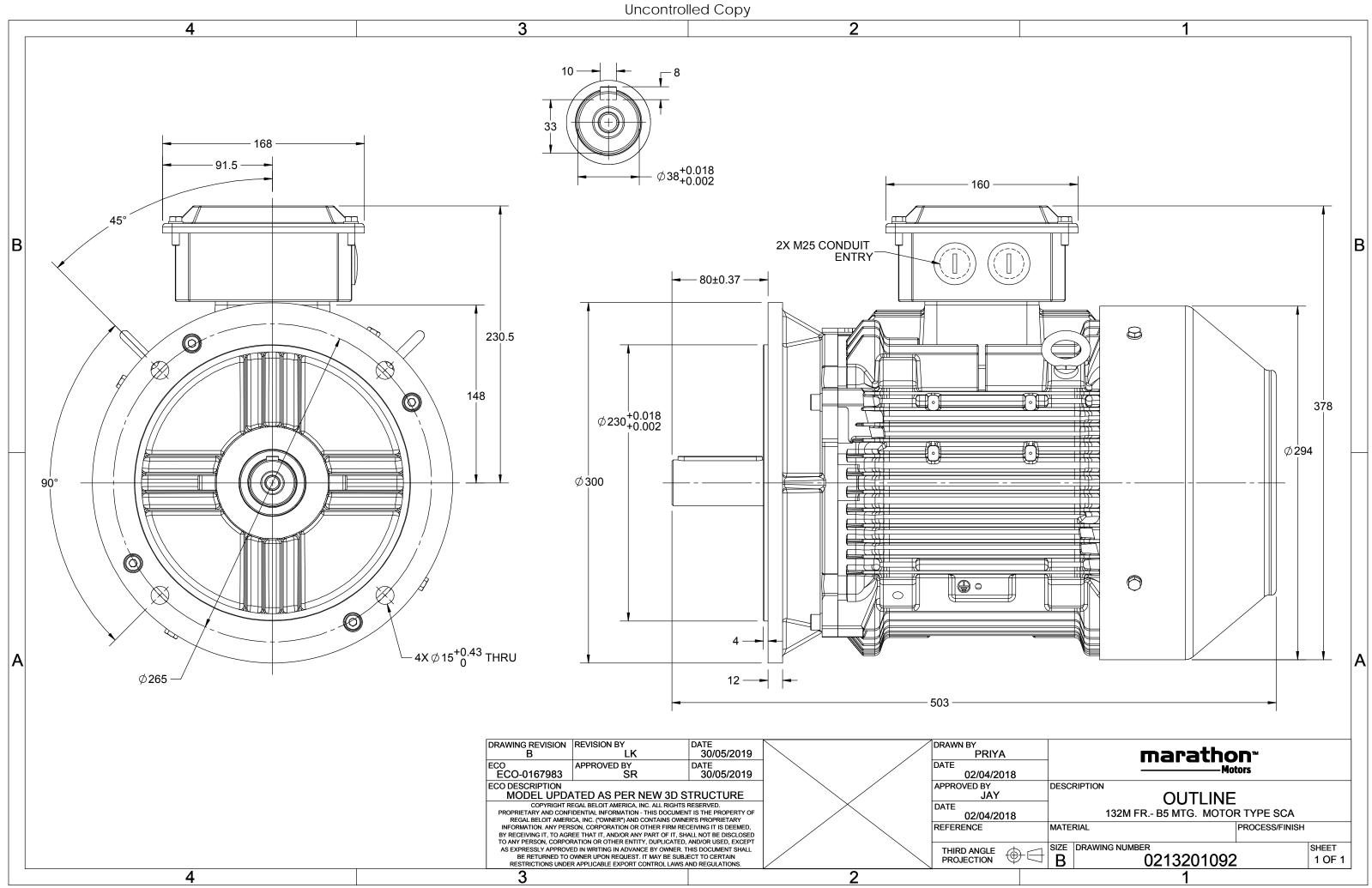
### Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	12.0 A	Speed	956 rpm		
Service Factor	1	Phase	3		
Efficiency	86 %	Power Factor	0.77		
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 40 °C		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201092	Connection Drawing	8442000085

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3 of 7





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### Model No. SCA5P53A1121GAA001

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE	9	6 EFF a	t load	d	PF	at _ lo	bad	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]
400	Δ	50	5.5	7.5	12.0	956	55.94	IE2	-	86	86	85.3	0.77	0.69	0.57	6.7	3.1	3.2
																10.55		
Motor t	<i>/</i> ·				SCA						protecti	on				IP 55		
Enclosu					TEFC					unting						IM B5		
	Material				Cast Iro					ling me						IC 411		
Frame s	size				132N	1					ght - ap					94		kg
Duty					S1					-	ght - app	rox.				97		kg
U	variatio				± 10%					or iner						0.0332		kgm <sup>2</sup>
	ncy varia				± 5%				Loa	d inerti	а				Cust	omer to Provid	le	
Combin	ed varia	tion *			10%					ation l						1.6		mm/s
Design					N				Nois	Noise level (1meter distance from motor)						59		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Star	ting m	ethod					DOL		
Ambien	t tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temper	ature ri	se (by i	resistanc	e)	80 [ Class	5 B ]		К	LR v	vithsta	nd time	(hot/co	ld)			30/15		S
Altitude	above	sea lev	el		1000			meter	Dire	ction c	of rotatio	on			В	Bi-directional		
Hazardo	ous area	classif	fication		NA				Star	ndard r	otation				Cloc	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	class		NA					Acc	cessory	- 1				PTC 150°C		
Rotor ty	/pe			Alı	uminum D	)ie cast				Acc	cessory	- 2				-		
Bearing	type			A	Anti-frictio	n ball				Acc	cessory	- 3				-		
DE / NC	E bearir	ng		63	08-2Z / 6	208-2Z			Terr	ninal b	ox posit	ion				TOP		
Lubrica	tion met	thod		G	Greased fo	or life			Max	kimum	cable si	ze/cond	uit size	1R	x 3C x 3	16mm²/2 x M2	5 x 1.5	
Type of	grease				NA				Aux	iliary te	erminal	box			Avail	able on Reque	st	

 $I_{A}/I_{N}$  - Locked Rotor Current / Rated Current  $T_{A}/T_{N}$  - 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 combine variation are as per IEC60034-1

Technical dat	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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

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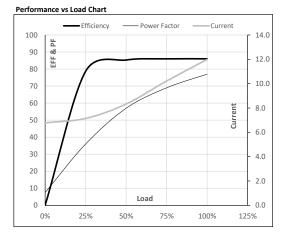
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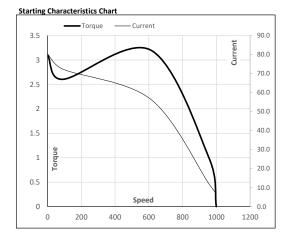
#### Model No. SCA5P53A1121GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	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	400	Δ	50	5.5	8	12.0	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.8	7.1	8.3	10.2	12.0	
Torque	Nm	0.0	13.5	27.3	41.4	55.9	
Speed	r/min	1000	990	980	969	956	
Efficiency	%	0.0	78.7	85.3	86.0	86.0	
Power Factor	%	7.5	36.0	57.0	69.0	77.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	91	612	956	1000							
Current	А	80.3	72.3	56.4	12.0	6.8							
Torque	pu	3.1	2.6	3.2	1	0							



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

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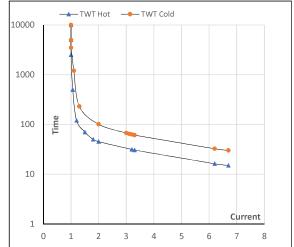
#### Model No. SCA5P53A1121GAA001

Enclosure	U	$\Delta / Y$	f	Ρ	Ρ	Ι	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	400	Y	50	5.5	7.5	12.0	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	l <sub>5</sub>	LR
TWT Hot	s	10000	45	36	30	25	20	15
TWT Cold	s	10000	65	60	50	45	40	30
Current	pu	1	2	3	4	5	5.5	6.7

#### Thermal Characteristics Chart



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

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