### **PRODUCT INFORMATION PACKET**

Model No: SCA0041A1121GAA001 Catalog No: SCA0041A1121GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 112M Frame, TEFC



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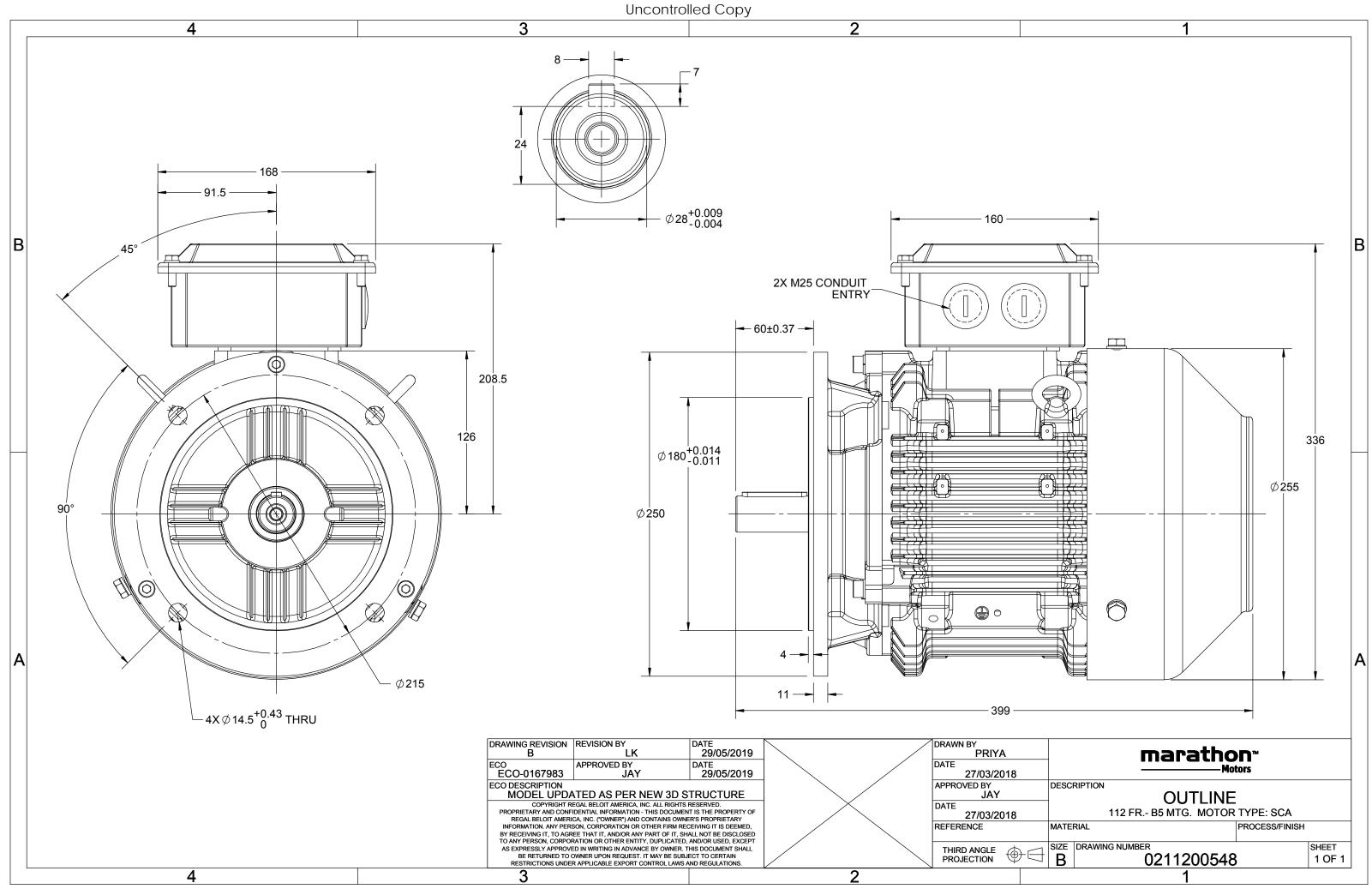
### Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.2 A	Speed	2864 rpm
Service Factor	1	Phase	3
Efficiency	85.8 %	Power Factor	0.93
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	112M 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 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0211200548	Connection Drawing	8442000085

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#### Model No. SCA0041A1121GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	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	4	5.5	7.2	2864	13.66	IE2	-	85.8	85.8	88	0.93	0.9	0.82	6.72	2.7	2.9
Motor ty	ype				SCA				Deg	gree of	protecti	on				IP 55		
Enclosur	re				TEFC				Мо	unting	type					IM B5		
Frame N	/laterial				Cast Ire	on			Coc	oling me	ethod					IC 411		
Frame si	ize				112N	1			Мо	tor wei	ght - ap	prox.				47		kg
Duty					S1				Gro	ss weig	ght - app	rox.				50		kg
Voltage	variatic	n *			± 10%	6			Мо	tor ine	tia					0.0050		kgm <sup>2</sup>
Frequen	cy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Prov	vide	
Combine	ed varia	tion *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				Noi	se leve	l ( 1mete	er distar	nce fron	n motor	)	66		dB(A)
Service f	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulatio	on class				F				Sta	rting m	ethod					DOL		
Ambient	t tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempera	ature ri	se (by r	resistand	e)	80 [ Clas	s B ]		К	LR v	withsta	nd time	(hot/co	ld)			10/6		s
Altitude	above	sea lev	el		1000	)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazardo	us area	l classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
Z	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
(	Gas gro	up			NA				Acc	essorie	s							
٦	Гетрег	ature c	lass		NA					Ac	cessory -	- 1				PTC 150°C		
Rotor ty	ре			A	luminum [	Die cast				Ac	cessory -	- 2				-		
Bearing	type				Anti-frictic	n ball				Ac	cessory -	- 3				-		
DE / ND	E bearin	ng		63	806-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricat	ion met	thod			Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	16mm²/2 x N	/125 x 1.5	
Type of	grease				NA				Aux	ciliary to	erminal l	box			Avail	able on Requ	uest	

 $I_{A}/I_{N}$  - 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	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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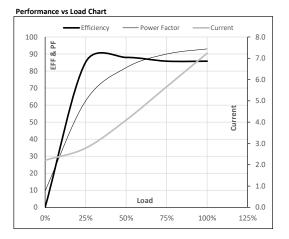
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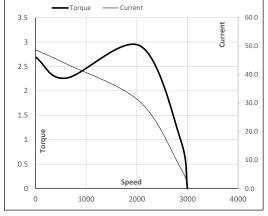
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	4	6	7.2	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.2	2.8	4.1	5.7	7.2	
Torque	Nm	0.0	3.3	6.7	10.1	13.7	
Speed	r/min	3000	2969	2939	2904	2864	
Efficiency	%	0.0	85.2	88.0	85.8	85.8	
Power Factor	%	9.7	62.5	82.0	90.0	93.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2064	2864	3000					
Current	А	48.7	43.8	30.4	7.2	2.2					
Torque	pu	2.7	2.3	2.9	1	0					

Starting Characteristics Chart



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

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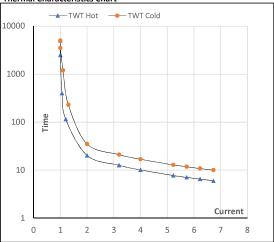
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	4	5.5	7.2	2864	1.39	13.66	IE2	40	S1	1000	0.0050	47

Motor	Speed	Torque	Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	S	10000	20	13	10	8	7	6
TWT Cold	s	10000	35	22	17	14	12	10
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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