## **PRODUCT INFORMATION PACKET**

Model No: SCA0043A4121GAA001 Catalog No: SCA0043A4121GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC



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Product Information Packet: Model No: SCA0043A4121GAA001, Catalog No:SCA0043A4121GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC

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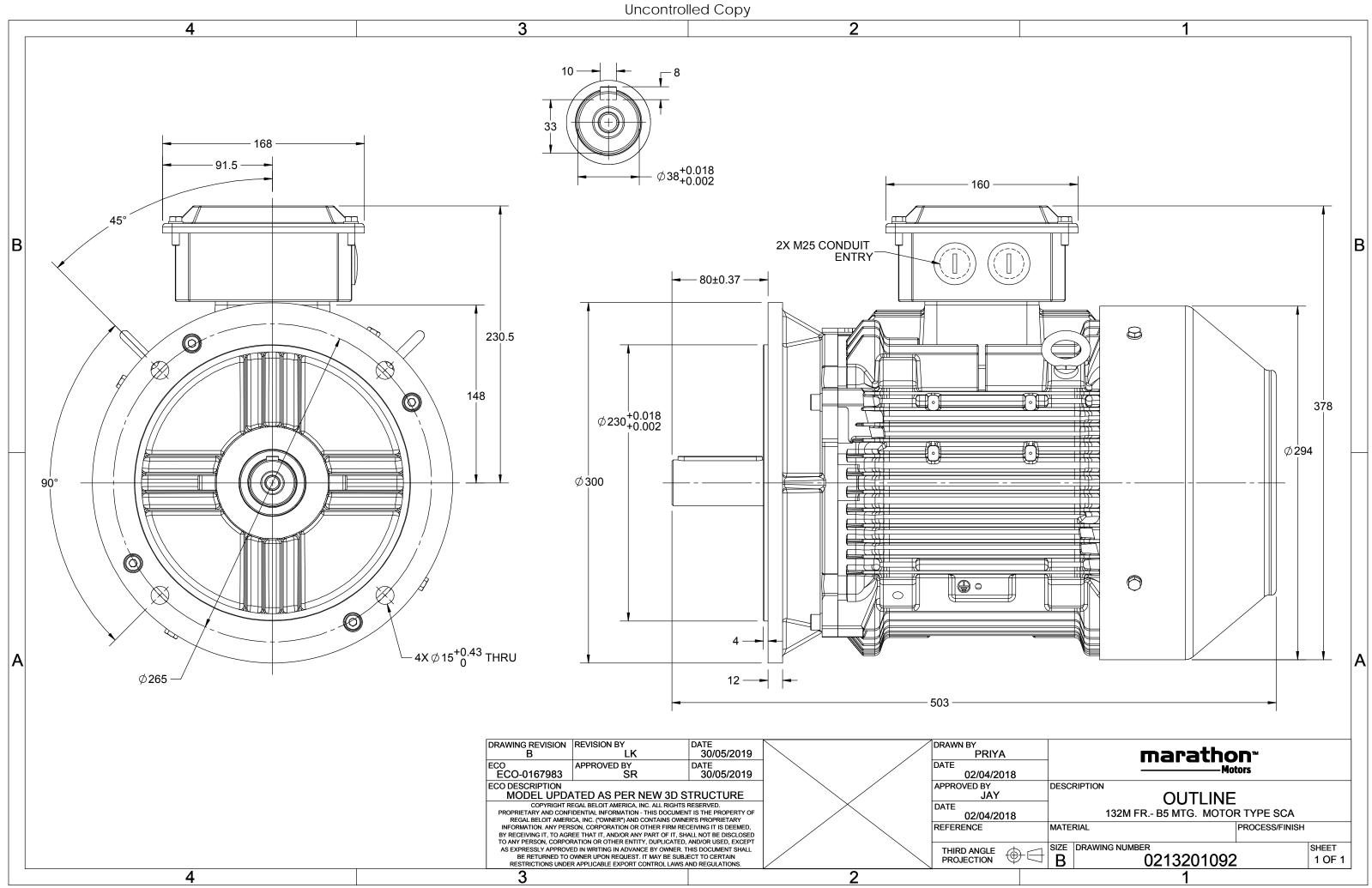
#### Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	9.1 A	Speed	953 rpm
Service Factor	1	Phase	3
Efficiency	84.6 %	Power Factor	0.79
Duty	S1	Insulation Class	F
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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													1					
U	$\Delta / Y$	f	Р	Р	I	n	Т	IE			t load			at lo		I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	,	FL		1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	4	5.5	9.1	953	41.18	IE2	-	84.6	84.6	85.1	0.79	0.73	0.61	6	2.6	2.7
					SCA				Des							IP 55		
Motor type					TEFC						protecti	on				IP 55 IM B5		
Enclosure					Cast Ir					unting						IC 411		
Frame Mat	erial				132N					oling me						82		
Frame size					152N S1	n					ght - ap					85		kg
Duty					± 109	/					ght - app	rox.				0.0256		kg
Voltage var		*			± 107					tor iner					Curct	omer to Provi	40	kgm <sup>2</sup>
Frequency					± 5%					id inerti					Cusic	1.6	ue	
Combined v	ariation	т			10% N	1				ration l			,			1.6 59		mm/s
Design Service fact					1.0						l ( 1mete				r)	2/3/4		dB(A)
Insulation of					1.0 F						ts hot/c	old/Equ	iany spr	eau		DOL		
					-20 to -	40		°C		rting m						Direct		
Ambient te					80 [ Clas			°C K		e of co		(1+/	1-1)			15/30		
Temperatu Altitude ab		•	lance)		1000	•					nd time of rotatio		10)		D	i-directional		S
					NA	)		meter				on			-	kwise form D	c	
Hazardous	Zone clas				NA					ndard r nt shad	otation				CIUC	RAL 5014	L	
			tion		NA					essorie						NAL JUI4		
	Gas gro Temper	•	alacc		NA				ALL		s cessory -	1				_		
Deter type	remper	ature	LIdSS	۸l	uminum l	Die cast					cessory -							
Rotor type Bearing typ	0				nti-frictio						cessory -					-		
DE / NDE be					08-2Z / (				Tor		ox posit					ТОР		
Lubrication	0				Greased f						cable si		luit cizo	1R	x 3C x 1	16mm²/2 x M2	25 x 1 5	
Type of gre				,	NA						erminal	,	iuit size	11		able on Reque		
Type of gre	ase				NA.				Au	tinary te	annindi	JUX			Avan	usic on neque		

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

 $T_{\rm K}/T_{\rm N}$  - 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

 $\ensuremath{^*}$  Voltage, Frequency and combine variation are as per IEC60034-1

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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30					

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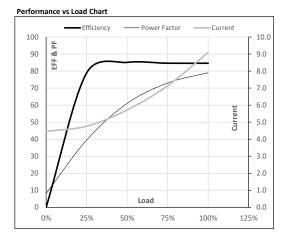
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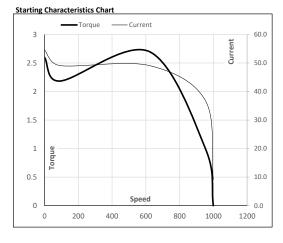
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	4	5.5	9.1	953	4.20	41.18	IE2	40	\$1	1000	0.0256	82

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	4.8	5.7	7.1	9.1	
Torque	Nm	0.0	9.9	20.1	30.4	41.2	
Speed	r/min	1000	989	979	967	953	
Efficiency	%	0.0	78.9	85.1	84.6	84.6	
Power Factor	%	8.1	39.5	61.0	73.0	79.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	91	621	953	1000							
Current	А	54.6	49.1	36.8	9.1	4.5							
Torque	pu	2.6	2.2	2.7	1	0							
Torque	pu	2.0	2.2	2.7	1	0							



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

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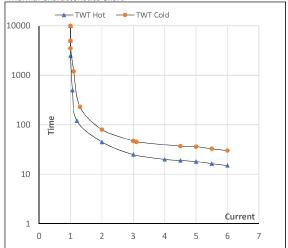
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				Amb	IE		1			n		Р	Р	f	∖ Y		U	Enclosure
[m]	[n	[		[°C]	lass		[Nm]	[kgm]	n]	[rpm	[A]	[hp]	[kW]	[Hz]	onn	C	(∨)	
1000	10	1	S1	40	IE2	3	41.18	4.20	3	953	9.1	5.5	4	50	Δ	60	380/66	TEFC
1000	10	1	S1	40	IE2	3	41.18	4.20	3	953	9.1	5.5	4	50	Δ	60	380/66	TEFC

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	20	18	16	15
TWT Cold	s	10000	80	47	45	36	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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