### **PRODUCT INFORMATION PACKET**

Model No: SCA0032AG121GAA001 Catalog No: SCA0032AG121GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 100L Frame, TEFC



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Product Information Packet: Model No: SCA0032AG121GAA001, Catalog No:SCA0032AG121GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 100L Frame, TEFC

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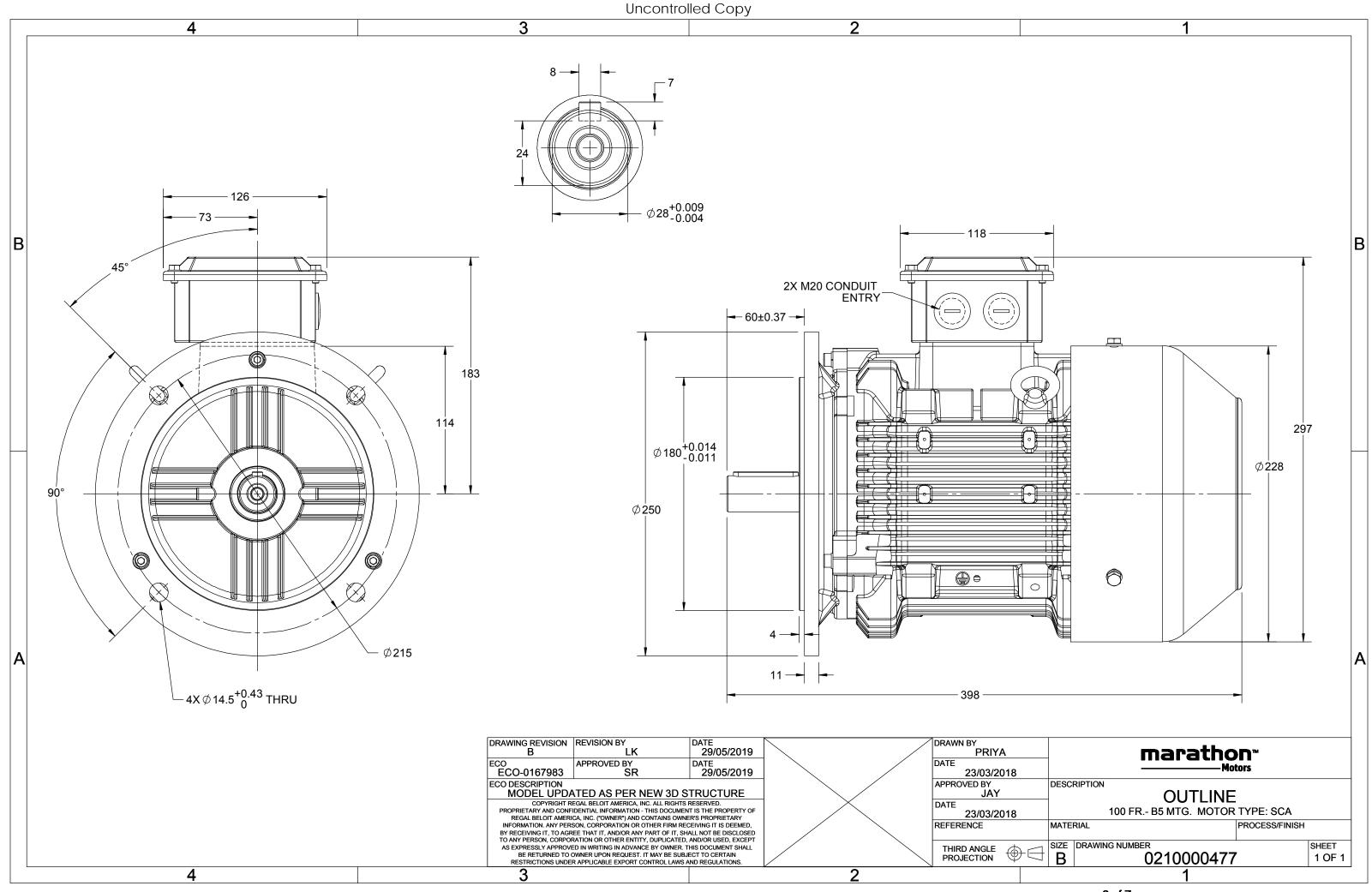
#### Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW		
Frequency	50 Hz	Voltage	220/380 V		
Current	6.4 A	Speed	1434 rpm		
Service Factor	1	Phase	3		
Efficiency	85.5 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
			40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
		•			
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		

#### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000477

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U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% 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]	
220/380	Y	50	3	4.0	6.3	1434	19.86	IE2	-	85.5	85.5	85.3	0.84	0.77	0.64	6.4	2.8	3.0	
Motor type					SCA				Degree of protection							IP 55			
Enclosure					TEFC	:				ounting		011				IM B5			
Frame Mate	erial	I Cast Iron													IC 411				
Frame size	criai				100L				Cooling method Motor weight - approx.							40		kg	
Duty					S1				Gross weight - approx.							43		kg	
Voltage var	iation *				± 10%	6				Motor inertia						0.0074			
Frequency		۱*			± 5%				Lo	Load inertia					Custo	omer to Provi	de	kgm <sup>2</sup>	
Combined v					10%				Vibration level							1.6		mm/s	
Design					Ν				No	Noise level ( 1meter distance from motor)						58		dB(A)	
Service fact	or				1.0					No. of starts hot/cold/Equally spread					2/3/4			. ,	
Insulation c	lass				F				Sta	Starting method						DOL			
Ambient te	mperatu	ire			-20 to +	40		°C	Ту	pe of co	upling				Direct				
Temperatu	re rise (b	y resis	tance)		80 [ Clas	s B ]		К	LR	LR withstand time (hot/cold)						10/20			
Altitude ab	ove sea l	level			1000	1		meter	Dir	rection o	of rotati	on			В	i-directional			
Hazardous	area clas	sificati	on		NA				Sta	andard r	otation				Cloc	kwise form D	E		
	Zone cl	assifica	ition		NA				Pa	int shad	e					RAL 5014			
	Gas gro	oup			NA				Ac	cessorie	s								
	Temper	rature	class		NA					Ac	cessory	- 1				-			
Rotor type				Alı	uminum (	Die cast				Accessory - 2					-				
Bearing typ	e			A	nti-frictio	on ball				Accessory - 3						-			
DE / NDE be	earing			62	06-2Z / 6	5206-2Z			Те	Terminal box position					ТОР				
Lubrication	method			G	Freased for	or life			Ma	Maximum cable size/conduit size 1R				R x 3C x 10mm²/2 x M20 x 1.5					
Type of gre	ase				NA				Au	xiliary t	erminal	box			Availa	able on Reque	est		

 $I_{\rm A}/I_{\rm N}$  - 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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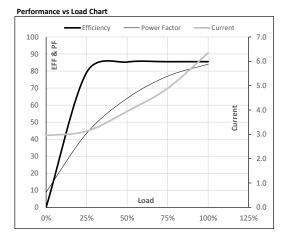
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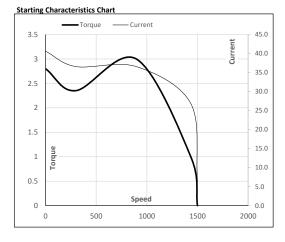
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/380	Y	50	3	4.0	6.3	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.0	3.1	3.9	4.9	6.3	
Torque	Nm	0.0	4.8	9.7	14.7	19.9	
Speed	r/min	1500	1485	1470	1453	1434	
Efficiency	%	0.0	79.2	85.3	85.5	85.5	
Power Factor	%	8.9	43.5	64.0	77.0	84.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	300	896	1434	1500						
Current	А	40.6	36.6	26.9	6.3	3.0						
Torque	pu	2.8	2.4	3.0	1	0						



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

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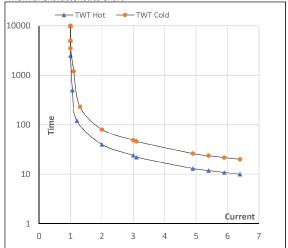
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/38	УC	50	3	4.0	6.3	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40
				5					19.00					0.0071	

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	39	26	17	13	11	10
TWT Cold	s	10000	75	49	35	26	23	20
Current	pu	1	2	3	4	5	5.5	6.4
-								

Thermal Characteristics Chart



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

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