PRODUCT INFORMATION PACKET

Model No: SCA2P23AG121GAA001 Catalog No: SCA2P23AG121GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 112M Frame, TEFC



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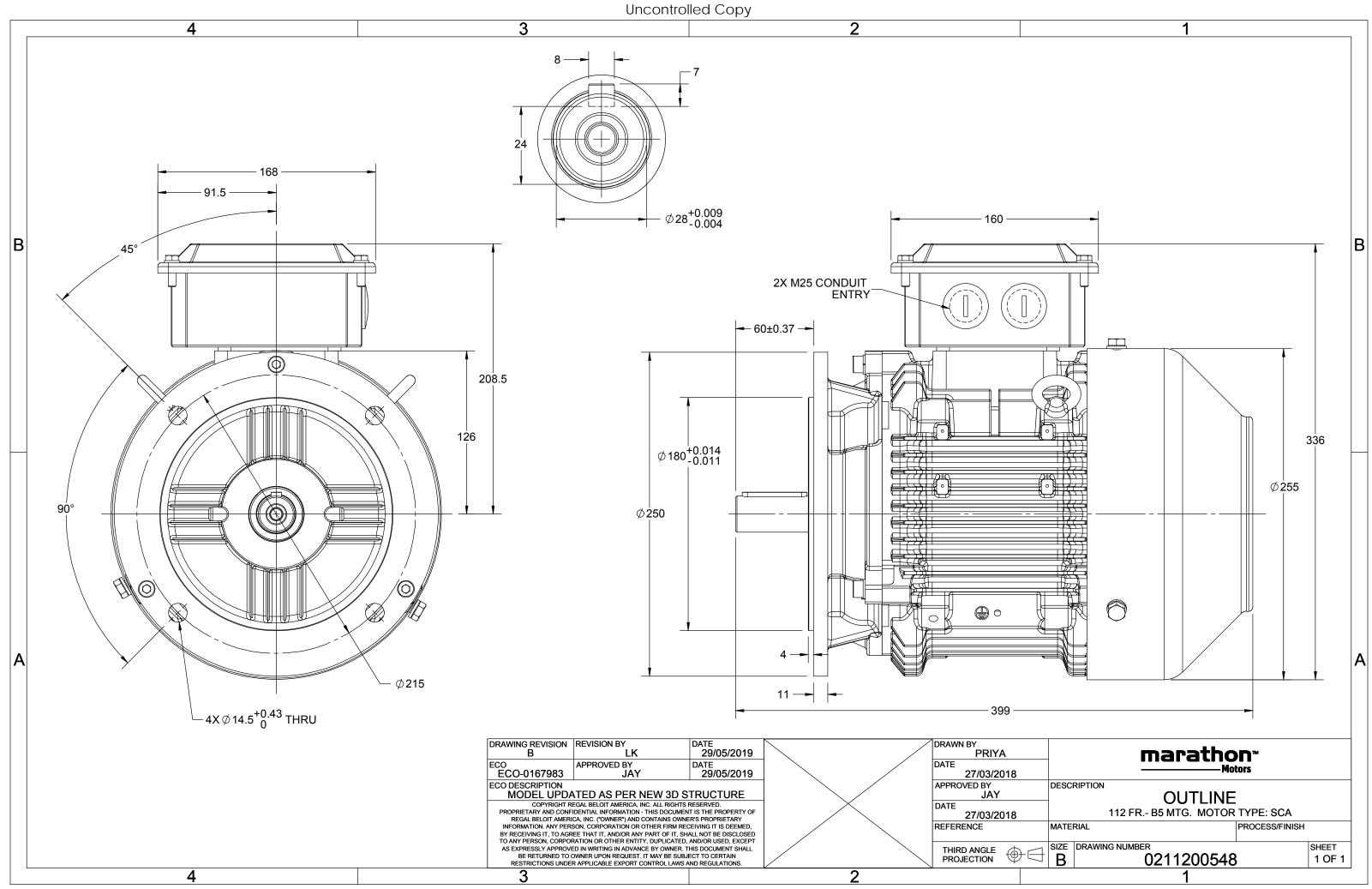
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	220/380 V
Current	5.2 A	Speed	962 rpm
Service Factor	e Factor 1		3
Efficiency	81.8 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	44014	Engloquiro	Totally Enclosed For Occled
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	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	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200548

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3 of 7





TerraMAX°

Model No. SCA2P23AG121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	t	PF	at lo	bad	I _A /I _N	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	2.2	3.0	5.2	962	22.21	IE2	-	81.8	81.8	80.2	0.78	0.7	0.56	6	2.3	2.6
Motor type					SCA				Degree of protection							IP 55		
Enclosure	ure TEFC					M	ounting	type					IM B5					
Frame Mate	erial	Cast Iron Cooling method									IC 411							
Frame size					112N	112M Motor weight - approx.							46		kg			
Duty					S1				Gr	Gross weight - approx.						49		kg
Voltage var	iation *				± 10%	6			Mo	Motor inertia						kgm ²		
Frequency	/ariation	*			± 5%				Lo	Load inertia				Customer to Provide			-	
Combined v	variation	*			10%				Vit	oration l	evel					1.6		mm/s
Design					Ν				No	Noise level (1meter distance from motor)					or) 59			dB(A)
Service fact	or				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulation c	lass				F				Sta	irting m	ethod			DOL				
Ambient te	mperatu	ire			-20 to +	-40		°C	Ту	be of co	upling					Direct		
Temperatu	re rise (b	y resist	tance)		80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitude abo	ove sea l	evel			1000	1		meter	Dir	ection o	of rotation	on			В	i-directional		
Hazardous	area clas	sificatio	on		NA				Sta	indard r	otation				Cloc	kwise form D	E	
	Zone cl	assifica	tion		NA				Pa	int shad	e					RAL 5014		
	Gas gro	oup			NA				Ac	cessorie	s							
	Temper	rature o	class		NA					Acc	essory	- 1				-		
Rotor type	type Aluminum Die cast					Accessory - 2												
Bearing typ	ng type Anti-friction ball					Accessory - 3					-							
DE / NDE be	earing	aring 6306-2Z / 6206-2Z					Те	Terminal box position						ТОР				
Lubrication	method			G	ireased fo	or life			Ma	Maximum cable size/conduit size 1R					R x 3C x 16mm²/2 x M25 x 1.5			
Type of grea	ase				NA				Au	xiliary te	erminal	box			Availa	able on Requ	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

* 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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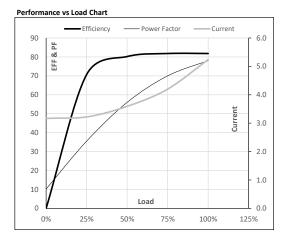
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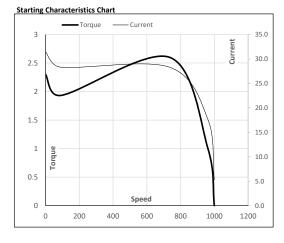
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	2.2	3.0	5.2	962	2.26	22.21	IE2	40	S1	1000	0.0180	46

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.2	3.2	3.6	4.2	5.2	
Torque	Nm	0.0	5.4	10.9	16.5	22.2	
Speed	r/min	1000	991	982	973	962	
Efficiency	%	0.0	70.7	80.2	81.8	81.8	
Power Factor	%	10.2	35.5	56.0	70.0	78.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	735	962	1000						
Current	А	31.5	28.3	17.6	5.2	3.2						
Torque	pu	2.3	1.9	2.6	1	0						



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

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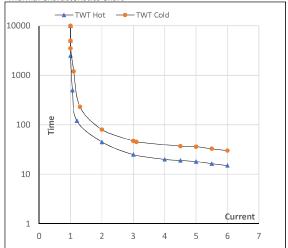
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/38	60 Y	50	2.2	3.0	5.2	962	2.26	22.21	IE2	40	S1	1000	0.0180	46

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	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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