PRODUCT INFORMATION PACKET

Model No: SCA5P53A4121GAA001 Catalog No: SCA5P53A4121GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC



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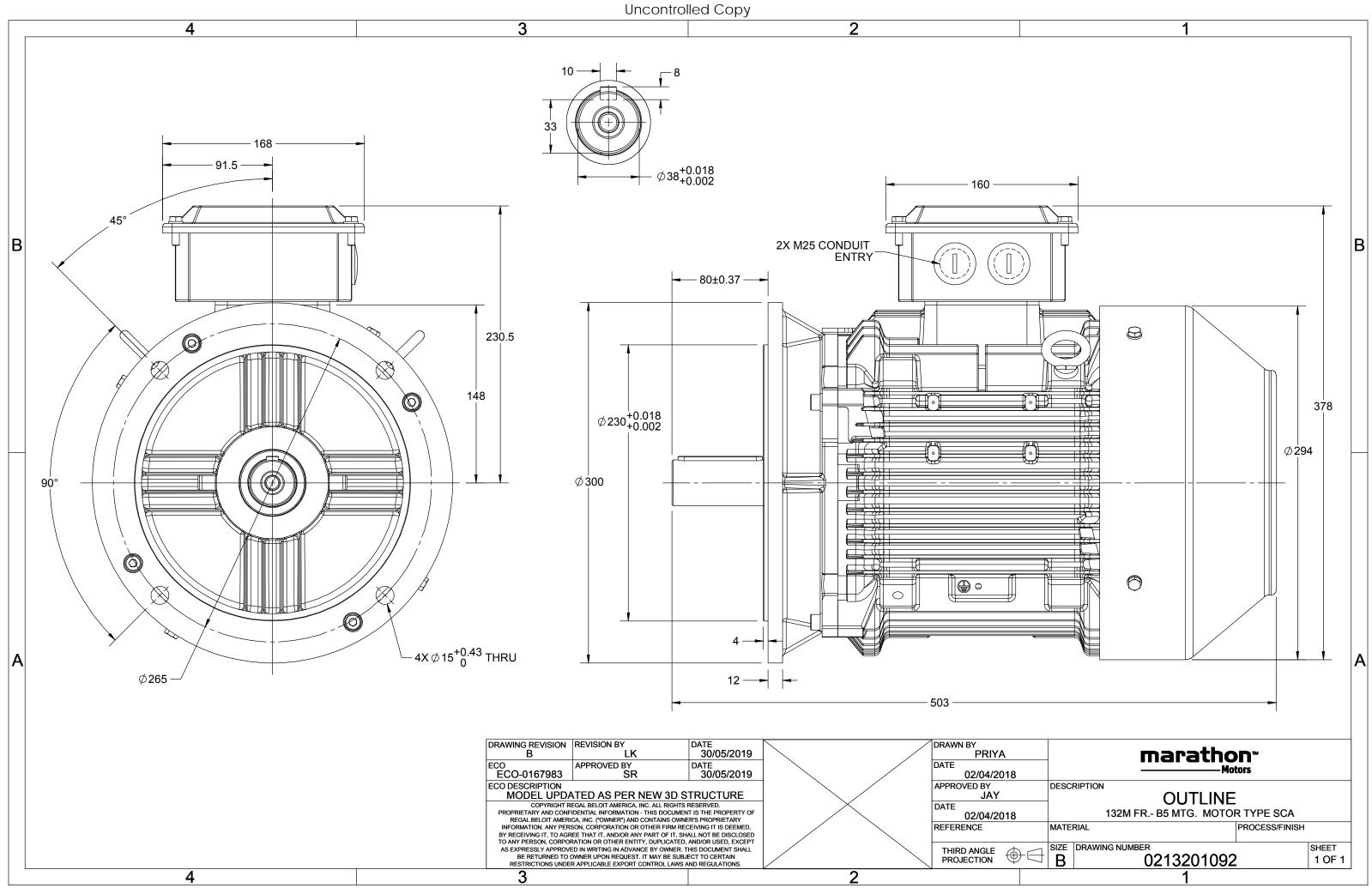
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	12.6 A	Speed	956 rpm
Service Factor	1	Phase	3
Efficiency	86 %	Power Factor	0.77
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		
Connection Drawing	8442000085	Outline Drawing	0213201092

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U	Δ / Y	f	Р	Р	I	n	Т	IE	c	% EFF a	t load	Ł	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]		
380/660	Δ	50	5.5	7.5	12.6	956	55.94	IE2	-	86	86	85.3	0.77	0.69	0.57	6.7	3.1	3.2		
					SCA				Degree of protection							IP 55				
Motor type					TEFC					,		on								
Enclosure Frame Mate								IM B5 IC 411												
Frame size	eriai				132N		Motor weight - approx.								kg					
Duty					1321V S1					Gross weight - approx.						94 97				
Voltage var	iation *				± 10%	6				Motor inertia						0.0332		kg kgm ²		
Frequency		*			± 5%					Load inertia					Custo	omer to Provid	e	KBIII		
Combined v					10%				Vibration level							1.6	-	mm/s		
Design	, an a cross				N					Noise level (1meter distance from motor)						tor) 59				
Service fact	or				1.0					No. of starts hot/cold/Equally spread					/	2/3/4				
Insulation of	lass				F					rting m			, ,			DOL				
Ambient te	mperatu	re			-20 to +	40		°C		e of co						Direct				
Temperatu	re rise (b	y resist	tance)		80 [Class	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s		
Altitude ab	ove sea l	evel			1000			meter	Dir	ection o	of rotati	on			В	i-directional				
Hazardous	area clas	sificatio	on		NA				Sta	ndard i	otation				Cloc	kwise form DE				
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014				
	Gas gro	up			NA				Acc	essorie	S									
	Temper	ature o	class		NA					Ac	cessory	- 1				-				
Rotor type				Alu	uminum [Die cast				Ac	cessory	- 2				-				
Bearing typ	e			A	nti-frictio	n ball				Accessory - 3						-				
DE / NDE be	earing			630	08-2Z / 6	5208-2Z			Ter	Terminal box position						ТОР				
Lubrication	method	od Greased for life					Maximum cable size/conduit size 1R x 3C x 16mm ² /2 x M						5 x 1.5							

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

Auxiliary terminal box

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

NA

* 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				

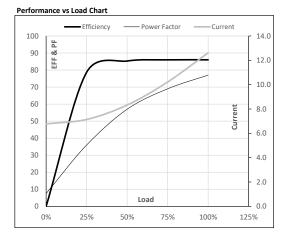
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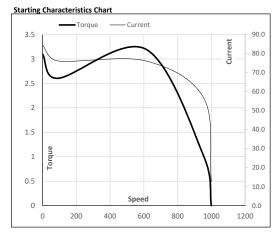
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	5.5	7.5	12.6	956	5.70	55.94	IE2	40	\$1	1000	0.0332	94

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.8	7.1	8.3	10.2	12.6	
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	84.6	76.1	56.4	12.6	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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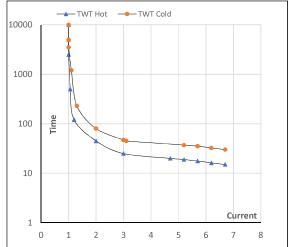
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						•	IE	Amb	Duty	Elevation	Inertia	Weight
Conn [Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
Y 50	5.5	7.5	12.6	956	5.70	55.94	IE2	40	S1	1000	0.0332	94

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	45	25	23	20	18	15
TWT Cold	s	10000	80	47	46	40	36	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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