PRODUCT INFORMATION PACKET

Model No: SCA5P51A1111GAA001 Catalog No: SCA5P51A1111GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 132S Frame, TEFC



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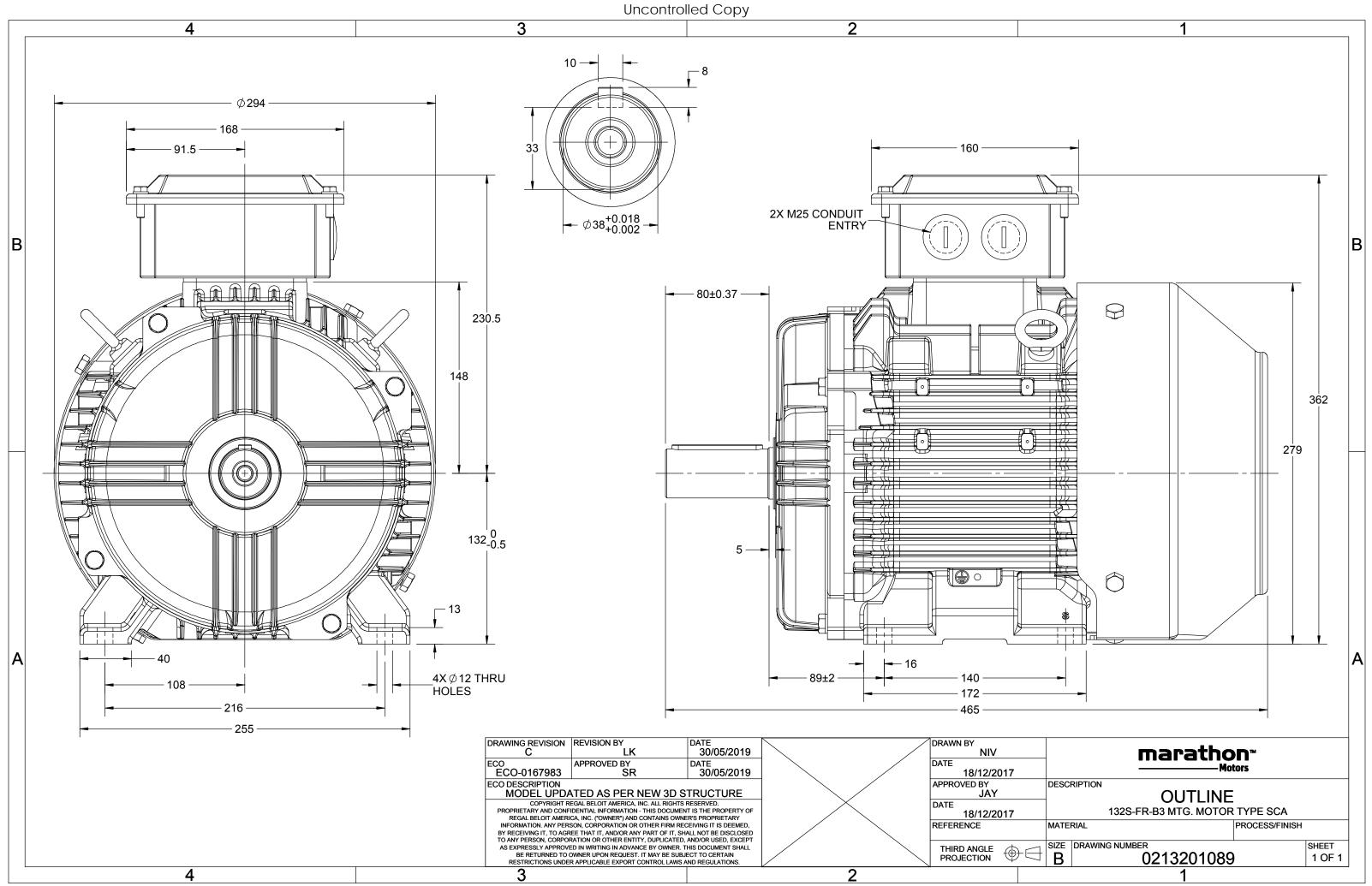
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	9.8 A	Speed	2908 rpm
Service Factor	1	Phase	3
Efficiency	87 %	Power Factor	0.93
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132S 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	2	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	465 mm	Frame Length	202 mm	
Shaft Diameter	38 mm	Shaft Extension	80 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0213201089	Connection Drawing	8442000085	

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U	Δ / Y	f	Р	Р	I.	n	т	IE	9	% 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]
400	Δ	50	5.5	7.5	9.8	2908	18.37	IE2	-	87	87	88	0.93	0.91	0.85	7.7	2.5	3.1
					SCA											IP 55		
Motor	<i>/</i> ·				TEFC				0		protecti	on				IP 55 IM B3		
Enclosu										unting								
	Material				Cast Ir					ling m						IC 411		
Frame	size				1325	•					ght - ap					71		kg
Duty			\$1 ± 10%							Gross weight - approx.						74		kg
0	e variatio							Motor inertia							0.0140			kgm ²
	ncy varia				± 5%										Custo	omer to Provi	de	
Combir	ned varia	tion *			10%			Vibration level								1.6		mm/s
Design					N				Nois	Noise level (1meter distance from motor)						68		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F				Star	ting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	Type of coupling						Direct		
Temper	rature ri	se (by r	esistanc	e)	80 [Clas	s B]		К	LR v	LR withstand time (hot/cold)						10/6		
Altitude	e above	sea lev	el		1000)		meter	Dire	Direction of rotation						Bi-directional		
Hazard	ous area	classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Ac	cessory -	- 1				PTC 150°C		
Rotor t	уре			Alu	uminum l	Die cast				Ac	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Ac	cessory -	- 3				-		
DE / NE	DE bearii	ng		630	08-2Z / 6	5208-2Z			Terr	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Max	kimum	cable siz	ze/cond	uit size	1R	x 3C x 1	16mm²/2 x M	25 x 1.5	
Type of	f grease				NA				Aux	iliary t	erminal l	зох			Avail	able on Requ	est	

 $I_{\text{A}}/I_{\text{N}}$ - 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	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

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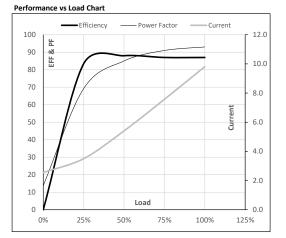
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	9.8	2908	1.87	18.37	IE2	40	S1	1000	0.014	71

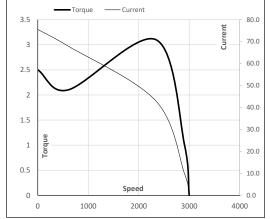
Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.6	3.5	5.4	7.6	9.8	
Torque	Nm	0.0	4.5	9.0	13.7	18.4	
Speed	r/min	3000	2978	2957	2933	2908	
Efficiency	%	0.0	83.4	88.0	87.0	87.0	
Power Factor	%	13.8	69.2	85.0	91.0	93.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2342	2908	3000
Current	А	75.5	68.0	43.0	9.8	2.6
Torque	pu	2.5	2.1	3.1	1	0

Starting Characteristics Chart



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

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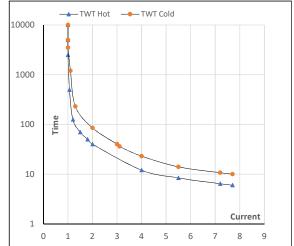
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	9.8	2908	1.87	18.37	IE2	40	S1	1000	0.0140	71

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	35	12	10	8	6
TWT Cold	S	10000	85	40	23	16	14	10
Current	pu	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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