## **PRODUCT INFORMATION PACKET**

Model No: SCA1P53A1171GAA001 Catalog No: SCA1P53A1171GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 100L Frame, TEFC



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Motors



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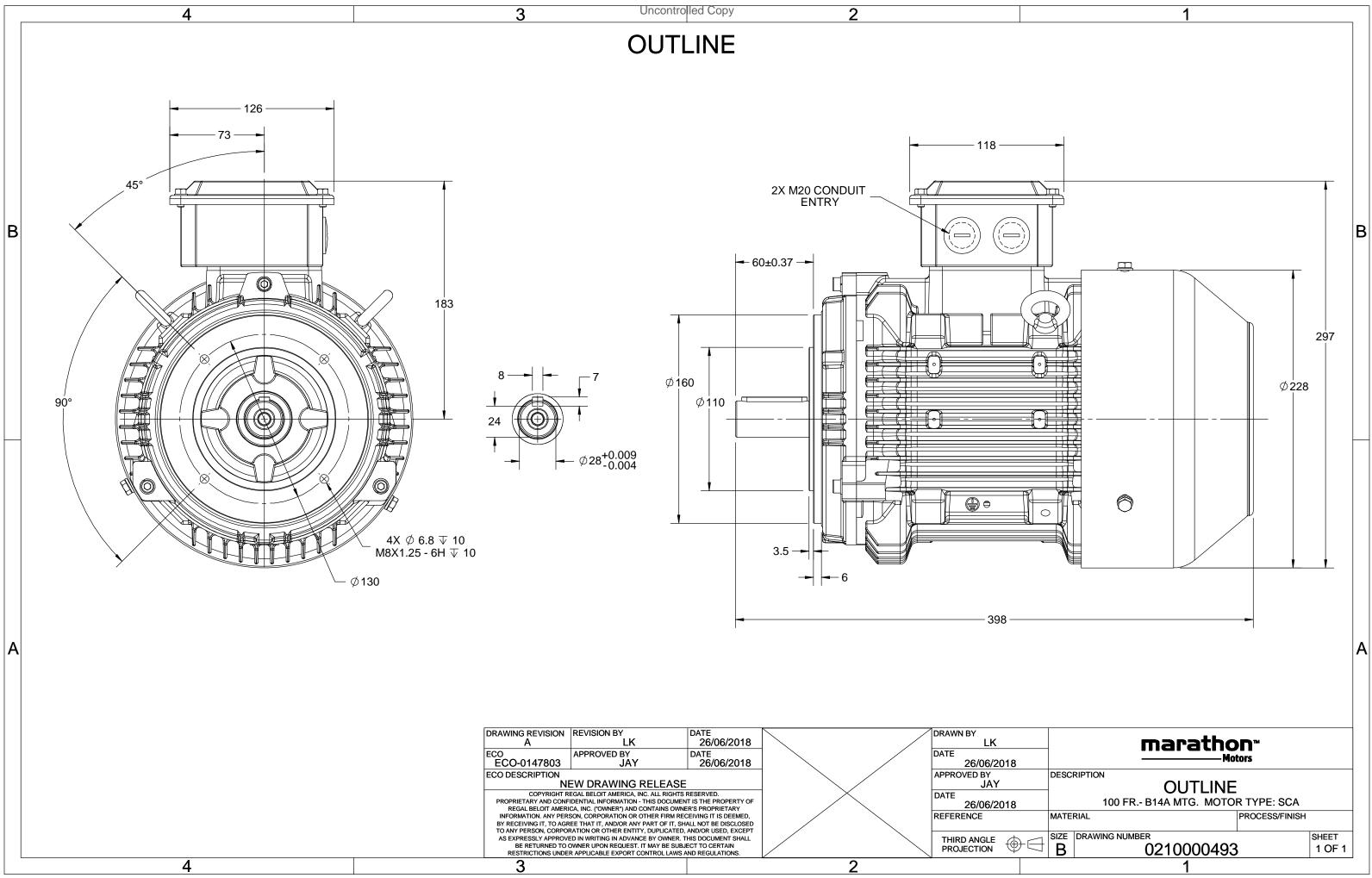
### Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	400 V
Current	3.5 A	Speed	931 rpm
Service Factor	1	Phase	3
Efficiency	79.8 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206
		·	
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14A	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	0210000493

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Model No. SCA1P53A1171GAA001

(V) C 400	Conn Y	[Hz]				n	Т	IE		% EFF at	t load	I	PF	at _ lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{K}/T_{N}$
400	v	[]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
	I	50	1.5	2.0	3.5	931	15.31	IE2	-	79.8	79.8	79	0.77	0.68	0.53	4.8	2.7	2.7
L																		
Motor typ	20				SCA				Dec	roo of	protectio					IP 55		
Enclosure																IM B14A		
	-				TEFC					unting						IC 411		
Frame Ma					Cast Iron 100L					oling me						38		
Frame size	2e				100L S1	wordt weight approx.					41		kg					
Duty						,			Gross weight - approx. Motor inertia								kg	
Voltage va					± 10%										<b>.</b> .	0.0058		kgm <sup>2</sup>
Frequency					± 5%				Load inertia						Cust	omer to Pro	vide	
Combined	d varia	tion *			10%			Vibration level							1.6		mm/s	
Design					N				Noi	Noise level (1meter distance from motor)					,			dB(A)
Service fa	actor				1.0				No.	No. of starts hot/cold/Equally sp			ally spr	ead		2/3/4		
Insulation	n class				F				Sta	rting me	ethod					DOL		
Ambient t	tempe	rature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperat	ture ris	se (by r	esistanc	e)	80 [ Class	s B ]		К	LR	withstar	nd time	(hot/co	ld)			30/15		S
Altitude a	above s	sea lev	el		1000			meter	Dire	ection o	f rotatio	n			В	i-directiona	I	
Hazardous	us area	classif	ication		NA				Sta	ndard ro	otation				Clo	ckwise form	DE	
Zo	one cla	ssificat	tion		NA				Pai	nt shade	e					RAL 5014		
Ga	as grou	цр			NA				Acc	essorie	S							
Te	empera	ature c	lass		NA					Acc	essory -	1				PTC 150°C		
Rotor type	e			Alu	uminum D	Die cast				Accessory - 2					-			
Bearing ty	ype			А	nti-frictio	n ball				Accessory - 3					-			
DE / NDE I		Ig		620	06-2Z / 6	206-2Z			Ter	minal b	, ox posit	ion				TOP		
, Lubricatio		•		G	ireased fo	or life					cable siz		uit size	1R	x 3C x 3	10mm²/2 x M	M20 x 1.5	
Type of gr	rease				NA						erminal l				Avail	able on Req	uest	

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

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

## 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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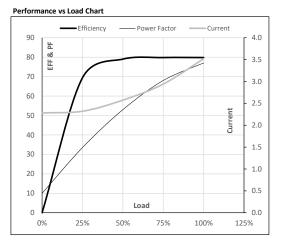
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Model No. SCA1P53A1171GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	38

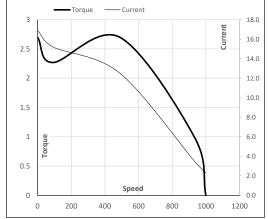
Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.3	2.3	2.6	2.9	3.5	
Torque	Nm	0.0	3.6	7.4	11.2	15.3	
Speed	r/min	1000	984	968	951	931	
Efficiency	%	0.0	69.4	79.0	79.8	79.8	
Power Factor	%	10.0	33.5	53.0	68.0	77.0	



### Motor Speed Torque Data

	LR	P-Up	BD	Rated	NL	
r/min	0	91	488	931	1000	
А	16.9	15.2	12.5	3.5	2.3	
pu	2.7	2.3	2.7	1	0	
	A	r/min 0 A 16.9	r/min 0 91 A 16.9 15.2	r/min 0 91 488 A 16.9 15.2 12.5	r/min 0 91 488 931 A 16.9 15.2 12.5 3.5	r/min 0 91 488 931 1000 A 16.9 15.2 12.5 3.5 2.3





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

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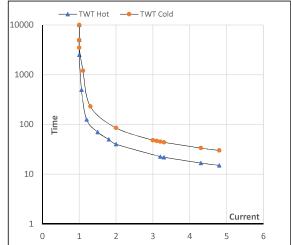
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	38

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	40	25	20	18	16	15
TWT Cold	s	10000	47	46	40	35	32	30
Current	pu	1	2	3	3.5	4	4.5	4.8

### Thermal Characteristics Chart



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

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