PRODUCT INFORMATION PACKET

Model No: SCA1P53A1111GAA001 Catalog No: SCA1P53A1111GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 100L Frame, TEFC



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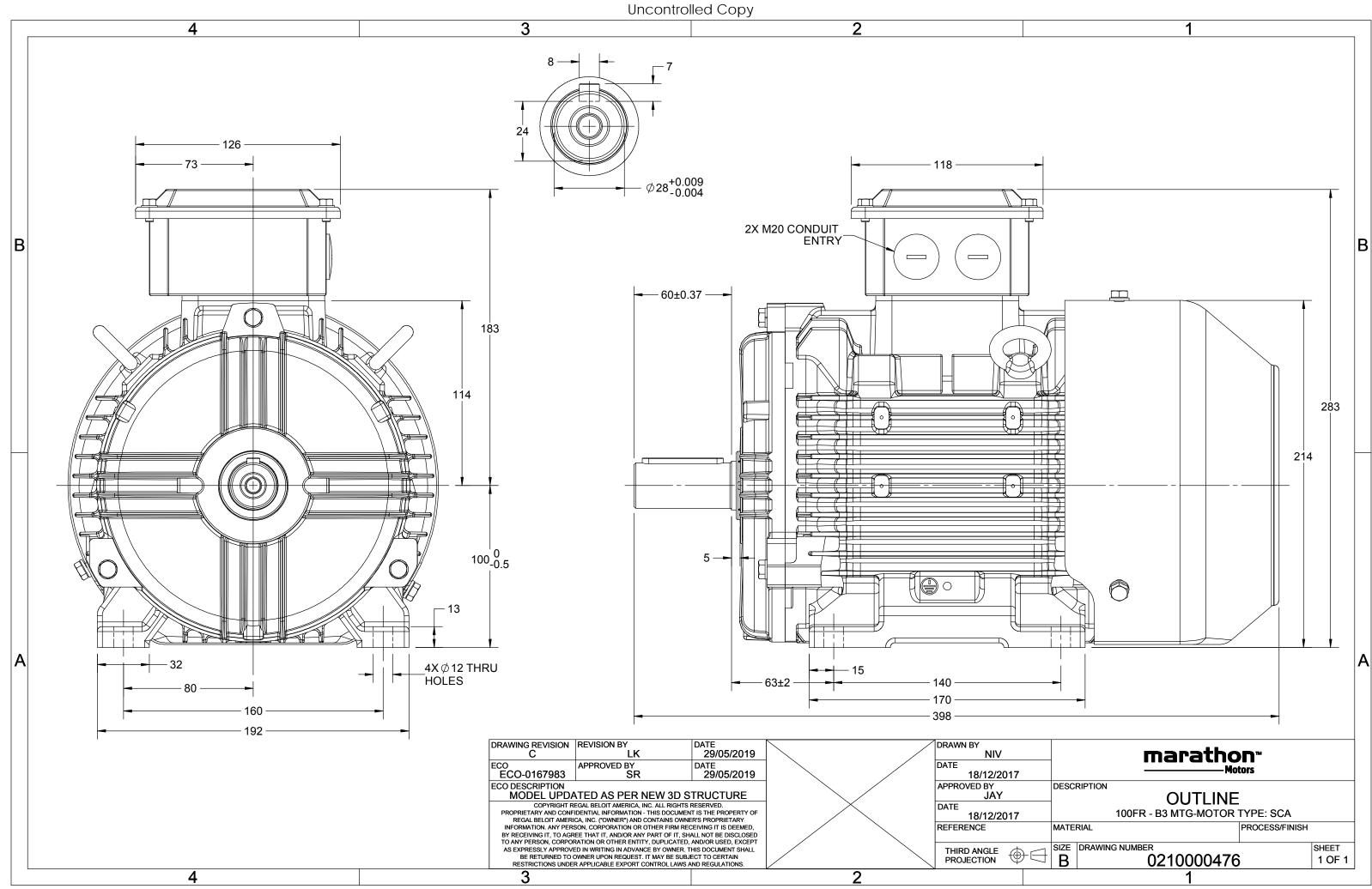
Nameplate Specifications

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	B3	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		
Outline Drawing	0210000476	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	Y	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	
Motor	tvne				SCA				Dee	ree of	orotecti	on				IP 55			
Enclos					TEFC					unting						IM B3			
	Material	1			Cast Ire	on				oling me						IC 411			
Frame					100L				Motor weight - approx.								kg		
Duty					S1					Gross weight - approx.						37 40			
	e variatio	on *			± 10%	6				Motor inertia						0.0058			
	ncy varia				± 5%				Loa	Load inertia						Customer to Provide			
Combi	, ned varia	ation *			10%				Vib	Vibration level						1.6		mm/s	
Design					Ν				Noi	Noise level (1meter distance from moto)	56		dB(A)	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulat	ion class				F				Sta	rting m	ethod					DOL			
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct			
Tempe	rature ri	se (by i	esistanc	e)	80 [Clas	s B]		К	LR v	withsta	nd time	(hot/co	ld)			30/15		S	
Altitud	e above	sea lev	el		1000	1		meter	Dire	ection c	of rotatio	on			В	i-directional			
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form DE			
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014			
	Gas gro	up			NA				Acc	essorie	s								
	Temper	rature o	lass		NA					Aco	essory -	· 1				PTC 150°C			
Rotor t	ype			A	uminum [Die cast				Aco	essory -	- 2				-			
Bearing	g type				Anti-frictic	on ball				Aco	essory -	- 3			-				
DE / NI	DE bearii	ng		62	06-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				ТОР			
Lubrica	tion me	thod			Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	1R x 3C x 10mm²/2 x M20 x 1.5				
Type o	f grease				NA				Aux	iliary te	erminal l	хос			Avail	able on Reques	st		

 I_{A}/I_{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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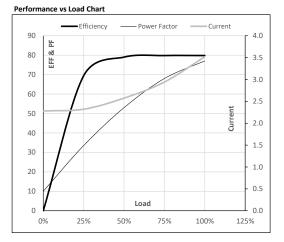
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Model No. SCA1P53A1111GAA001

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	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	37

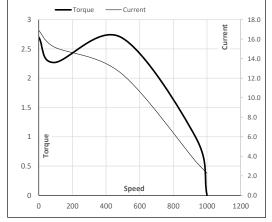
а						
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	2.3	2.3	2.6	2.9	3.5	
Nm	0.0	3.6	7.4	11.2	15.3	
r/min	1000	984	968	951	931	
%	0.0	69.4	79.0	79.8	79.8	
%	10.0	33.5	53.0	68.0	77.0	
	A Nm r/min %	NL A 2.3 Nm 0.0 r/min 1000 % 0.0	NL 1/4FL A 2.3 2.3 Nm 0.0 3.6 r/min 1000 984 % 0.0 69.4	NL 1/4FL 1/2FL A 2.3 2.3 2.6 Nm 0.0 3.6 7.4 r/min 1000 984 968 % 0.0 69.4 79.0	NL 1/4FL 1/2FL 3/4FL A 2.3 2.3 2.6 2.9 Nm 0.0 3.6 7.4 11.2 r/min 1000 984 968 951 % 0.0 69.4 79.0 79.8	NL 1/4FL 1/2FL 3/4FL FL A 2.3 2.3 2.6 2.9 3.5 Nm 0.0 3.6 7.4 11.2 15.3 r/min 1000 984 968 951 931 % 0.0 69.4 79.0 79.8 79.8



Motor Speed Torque Data

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

Starting Characteristics Chart



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

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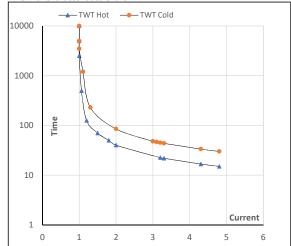
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	37

Motor Speed Torque Data

1		E1						1.0
Load		FL	1 ₁	1 ₂	I ₃	I ₄	1 ₅	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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