PRODUCT INFORMATION PACKET

Model No: SCA1P53AG111GAA001 Catalog No: SCA1P53AG111GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 100L Frame, TEFC



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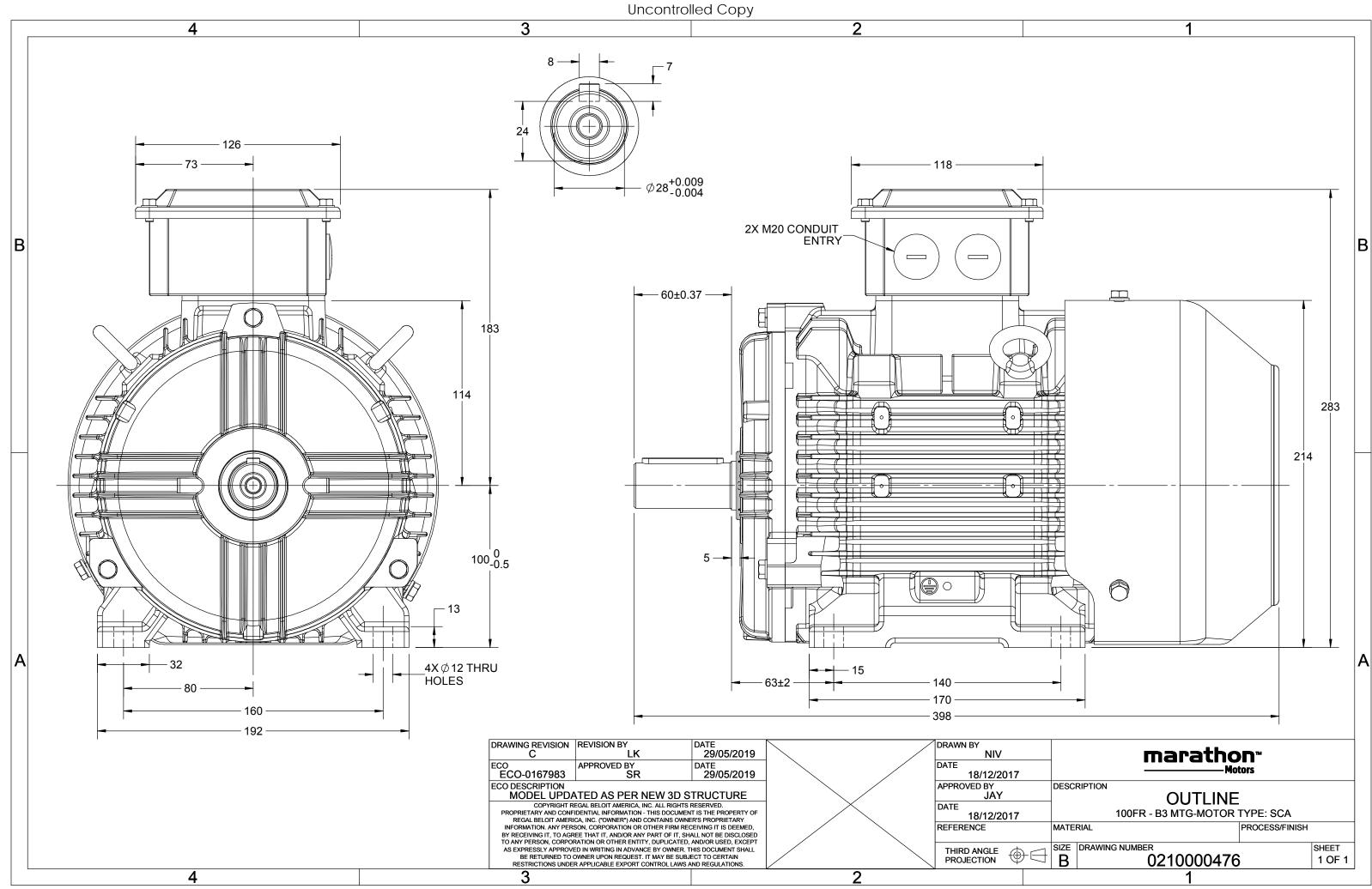
Nameplate Specifications

Output HP	2 Нр	Output KW	1.5 kW
Frequency	50 Hz	Voltage	220/380 V
Current	3.7 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
Frame Thermal Protection	100L 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 6206	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	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		
Connection Drawing	8442000085	Outline Drawing	0210000476

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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]
220/380	Y	50	1.5	2.0	3.7	931	15.31	IE2	-	79.8	79.8	79	0.77	0.68	0.53	4.8	2.7	2.7
					SCA											IP 55		
Motor type	e							Deg	Degree of protection									
Enclosure					TEFC				Mo	Mounting type			IM B3					
Frame Mat	terial				Cast Ir	on			Coc	Cooling method				IC 411				
Frame size					1001	-			Mo	tor wei	ght - apj	prox.	37				kg	
Duty					S1				Gro	ss weig	ht - app	rox.		40				kg
Voltage va	riation	*			± 10%	٥%			Motor inertia						0.0058		kgm ²	
Frequency	variatio	on *			± 5%	D			Loa	d inerti	а				Custo	omer to Provi	ide	
Combined	variatio	on *			10%				Vib	ration l	evel					1.6		mm/s

	10/0		VIDIALIOITIEVEI	1.0	11111/5
Design	Ν		Noise level (1meter distance from mot	or) 56	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistance)	80 [Class B]	к	LR withstand time (hot/cold)	15/30	s
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	-	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6206-2Z / 6206-2Z		Terminal box position	ТОР	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	Type of grease NA		Auxiliary terminal box	Available on Request	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				

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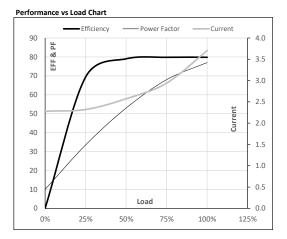
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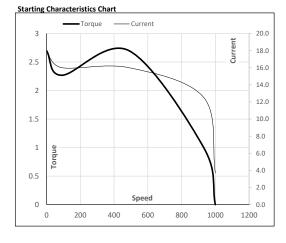
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Enclosure	U (V)	Δ/Y	f	P	P	 [A]	n [RPM]	T	T [Nm]	IE Class	Amb [°C]	Duty	Elevation	Inertia	Weight
	(v)	Conn	[Hz]	[kW]	[hp]	[A]	[RPIVI]	[kgm]	[IN/M]	Class	[-C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	1.5	2.0	3.7	931	1.56	15.31	IE2	40	S1	1000	0.0058	37

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.3	2.3	2.6	2.9	3.7	
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												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	488	931	1000						
Current	А	17.8	16.0	12.5	3.7	2.3						
Torque	pu	2.7	2.3	2.7	1	0						



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

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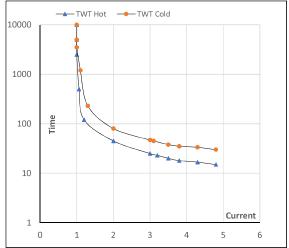
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(W] [hp] [A]	[] [l]	ENU 1				. 2.	
(w) [np] [A]	[rpm] [kgm]	[Nm]	Class	[°C]	[m]	[kg-m ²]	[kg]
1.5 2.0 3.7	931 1.56	15.31	IE2	40 S1	1000	0.0058	37
1.5							

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا5	LR
TWT Hot	s	10000	45	25	20	17	16	15
TWT Cold	s	10000	80	47	38	33	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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