PRODUCT INFORMATION PACKET

Model No: SCA1P53AG141GAA001 Catalog No: SCA1P53AG141GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 100L Frame, TEFC



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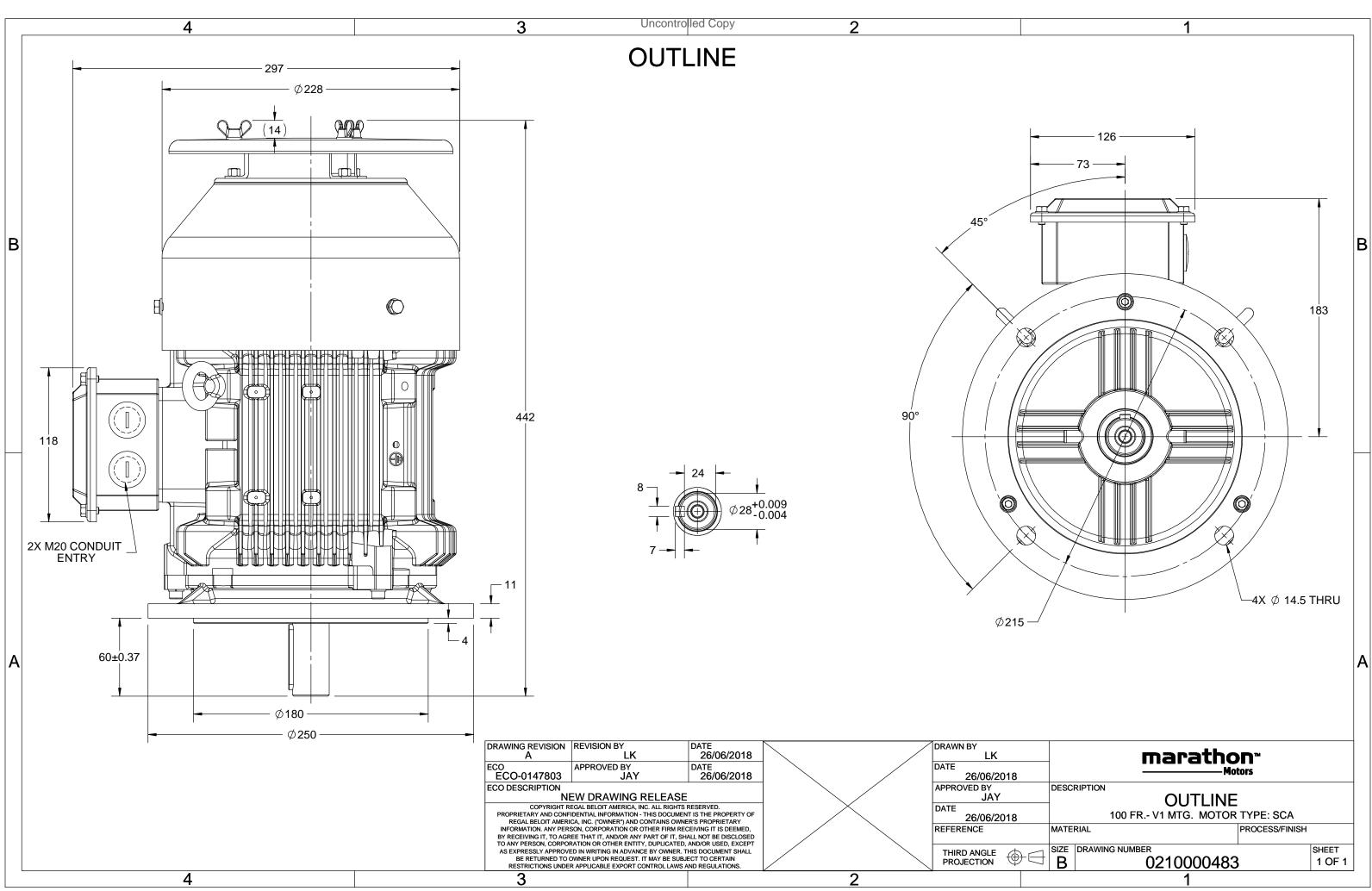
Nameplate Specifications

Output HP	2 Hp	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	1001	Enclosure	Totally Enclosed Fan Cooled
Flame	100L	LICIOSUIE	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	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	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	442 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000483

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ġ	6 EFF at	t load	ł	PF	at lo	bad	I_A/I_N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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

Motor type	SCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	100L		Motor weight - approx.	40	kg
Duty	S1		Gross weight - approx.	43	kg
Voltage variation *	± 10%		Motor inertia	0.0058	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	Ν		Noise level (1meter distance from moto	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)	30/15	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	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 10mm²/2 x M20 x 1.5	
Type of grease	NA		Auxiliary terminal box	Available on Request	

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

 T_{K}/T_{N} - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



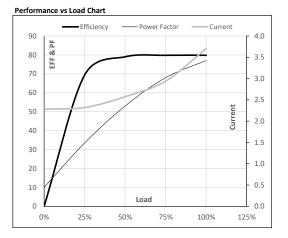
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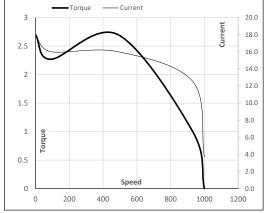
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	1.5	2.0	3.7	931	1.56	15.31	IE2	40	S1	1000	0.0058	40

Motor Load Dat	а						
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	



Load Point		LR				
Loud Follin		LK	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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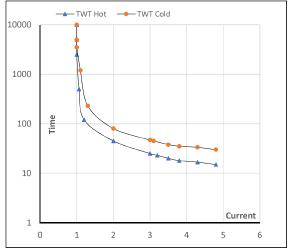
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			P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 220	/380 Y	50	1.5	2.0	3.7	931	1.56	15.31	IE2	40	S1	1000	0.0058	40

Motor Speed Torque Data

motor opec		ac Bata						
Load		FL	I_1	I_2	I_3	I_4	I ₅	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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