PRODUCT INFORMATION PACKET

Model No: SCA1P53A1141GAA001 Catalog No: SCA1P53A1141GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 100L Frame, TEFC



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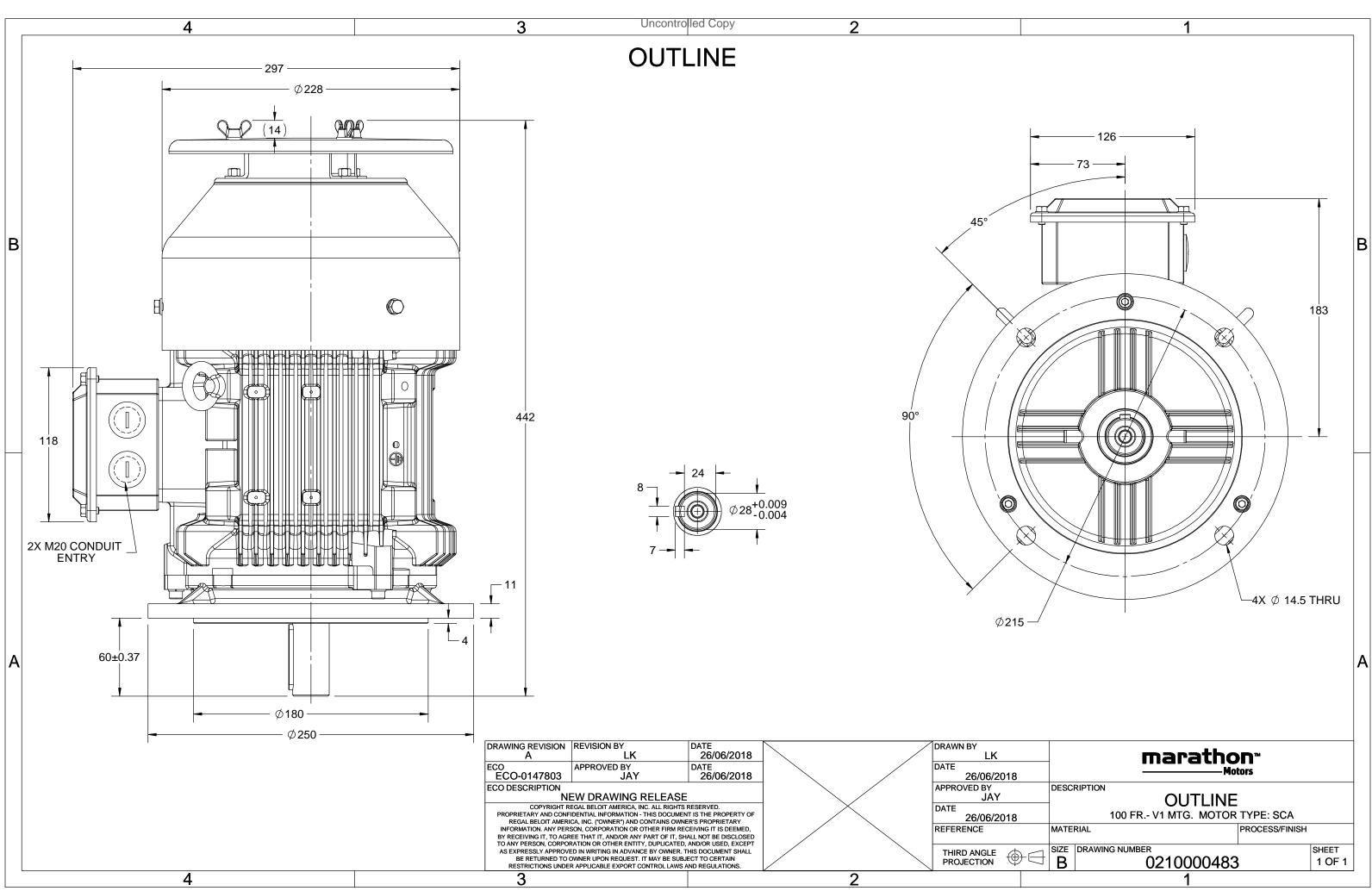
Nameplate Specifications

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	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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$U = \Delta / Y$	f	Р	Р	I	n	Т	IE	0	% 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
															10.55		
Motor type				SCA					,	protecti	on				IP 55		
Enclosure				TEFC					Mounting type						IM V1		
Frame Material				Cast Iro				Cooling method							IC 411		
Frame size				100L						ght - ap			40				
Duty				S1				Gro	oss weig	sht - app	rox.			43		kg	
Voltage variatio	n *			± 10%				Mo	tor iner	tia					0.0058		kgm ²
Frequency varia	tion *			± 5%				Load inertia						Cust	omer to Provid	de	
Combined varia	tion *			10%			Vibration level								1.6		mm/s
Design				N	Noise level (1r						er distar	nce from	n motor)	56		dB(A)
Service factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead	2/3/4			
Insulation class				F				Sta	Starting method						DOL		
Ambient tempe	rature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Temperature ris	se (by r	resistanc	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)						30/15		
Altitude above s	sea lev	el		1000			meter	Dire	Direction of rotation						Bi-directional		
Hazardous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	E	
Zone cla	ssifica	tion		NA				Pair	nt shad	е					RAL 5014		
Gas grou	Jp			NA				Accessories									
Tempera	ature o	lass		NA					Aco	cessory -	- 1				PTC 150°C		
Rotor type			Al	uminum D	ie cast				Aco	cessory -	2				-		
Bearing type			A	Anti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NDE bearin	g		62	06-2Z / 6	206-2Z			Ter	minal b	ox posit	ion			ТОР			
Lubrication met	hod		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M2	20 x 1.5	
Type of grease				NA				Aux	diliary te	erminal	зох			Avail	able on Reque	est	

 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

 $\ensuremath{^*}$ 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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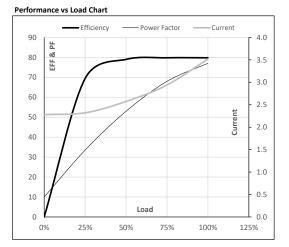


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			r -	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	40

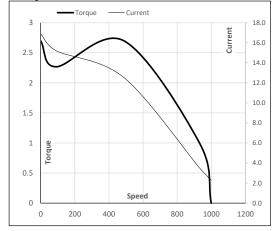
Motor Load Data

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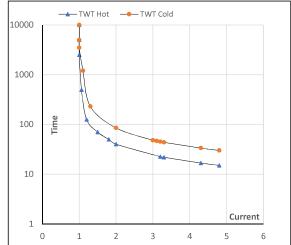
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	40

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I 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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