PRODUCT INFORMATION PACKET

Model No: SCA1P53A1181GAA001 Catalog No: SCA1P53A1181GAA001 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 100L Frame, TEFC



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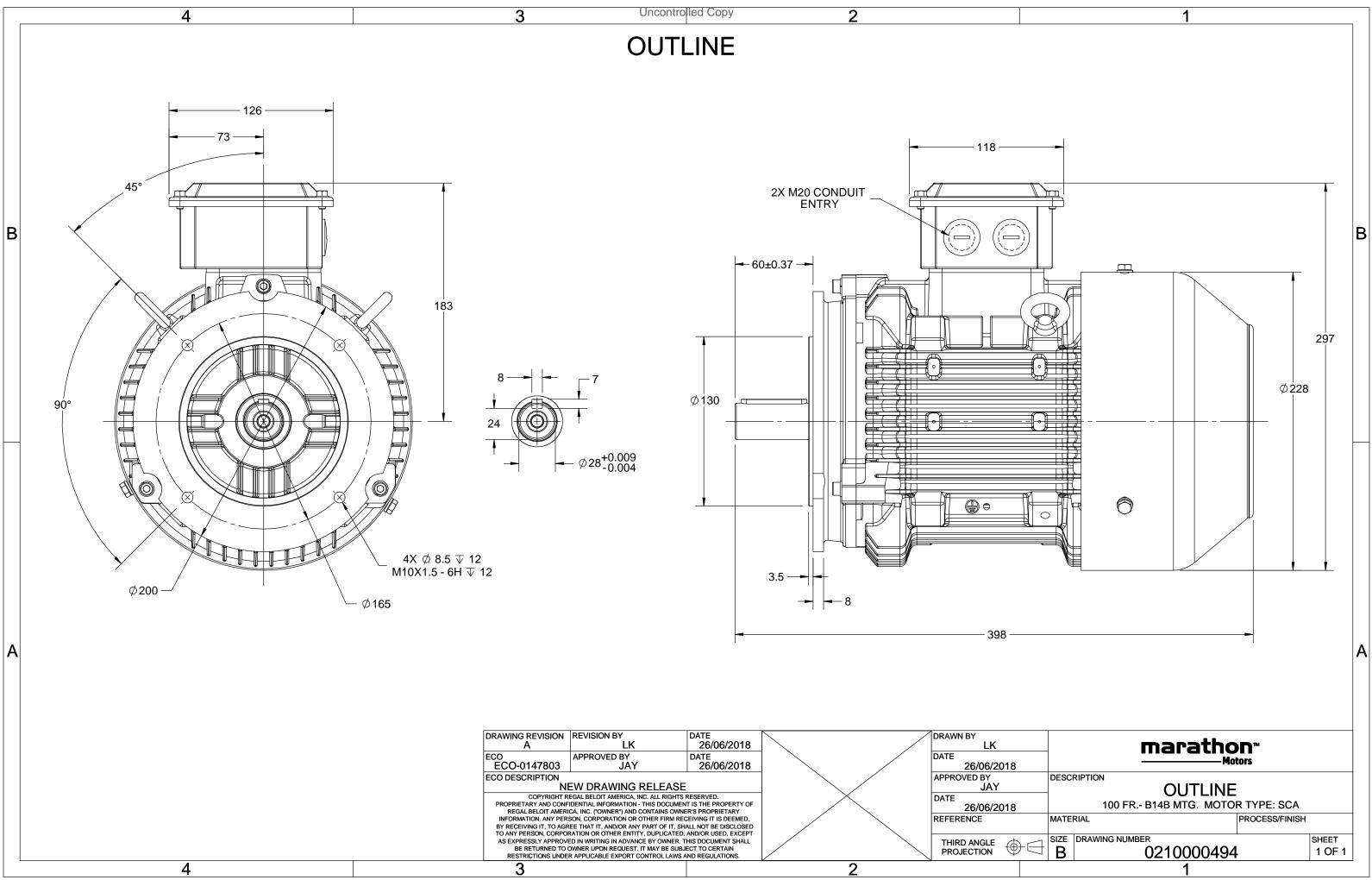
Nameplate Specifications

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
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
Drive End Bearing Size	6206 No	Opp Drive End Bearing Size CSA	6206 No
-			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14B	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	0210000494	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	1	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]
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	tyne				SCA				Dec	ree of	protectio	מר				IP 55		
Enclosu					TEFC											IM B14B		
	Material				Cast Ir	-				Mounting type Cooling method						IC 411		
Frame					100					Motor weight - approx.						38		kg
Duty	5120				S1					Gross weight - approx.						41		kg
,	e variatio	on *			± 10%	6		Motor inertia								0.0058		kgm ²
, in the second s	ncy varia				± 5%			Load inertia							Cust	omer to Prov	vide	NBIII
	ned varia				10%		Vibr									1.6		mm/s
Design					Ν				Noi	se leve	l (1mete	er distar	nce fror	n motor)	56		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class				F					rting m		DOL						
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	s B]		К	LR	LR withstand time (hot/cold)						30/15		
Altitud	e above	sea lev	el		1000)		meter	Dire	Direction of rotation Bi-direction						i-directional	l .	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature o	lass		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	ype			Al	uminum (Die cast				Ace	cessory -	2			-			
Bearing	g type			А	nti-frictio	on ball				Accessory - 3					-			
DE / NE	DE bearin	ng		62	06-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	Greased for	or life			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 3	10mm²/2 x M	M20 x 1.5	
Type of	fgrease				NA				Aux	kiliary te	erminal l	хос			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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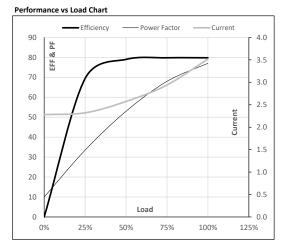


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			٢	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	38

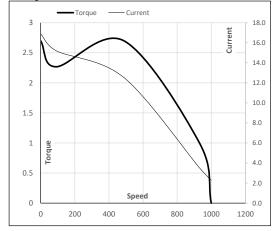
Motor Load Data

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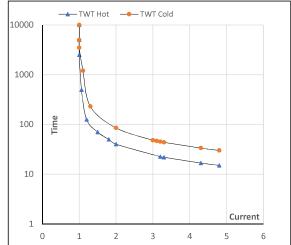
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2.0	3.5	931	1.56	15.31	IE2	40	S1	1000	0.0058	38

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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