PRODUCT INFORMATION PACKET

Model No: SCA1P13AG181GAA001 Catalog No: SCA1P13AG181GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 90L Frame, TEFC



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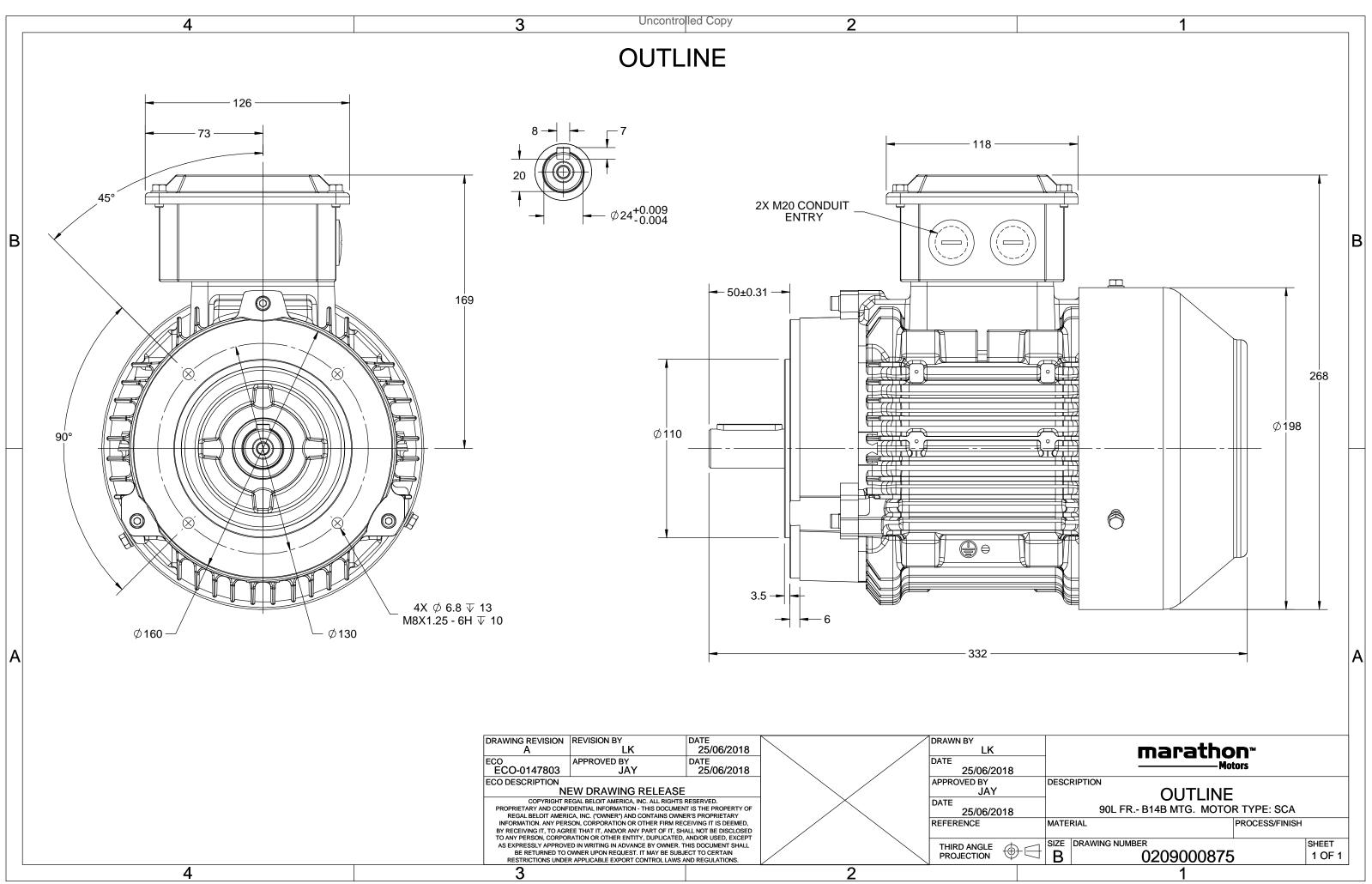
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	220/380 V
Current	2.8 A	Speed	912 rpm
Service Factor	1	Phase	3
Efficiency	78.1 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	90L 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 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205

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	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000875	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]
220/380	Y	50	1.1	1.5	2.8	912	11.73	IE2	-	78.1	78.1	77.5	0.76	0.68	0.55	4.1	2.4	2.4
					SCA					c					IP 55			
Motor typ					TEFC						orotecti	on			IM B14B			
Enclosure					Cast Ire					unting						IC 411		
Frame Ma					90L	511				ling me						27.2		l.a
Frame size	2				90L						ght - apj					27.2		kg
Duty Valtage ve	viation	*			± 10%	4					ht - app	rox.				0.0048		kg
Voltage va					± 5%					tor iner					Cust	omer to Provide	2	kgm²
Frequency Combined					10%				Lodd Incrtid						=			
	variatio	on ™			10% N				Vibration level 1.6 Noise level (1meter distance from motor) 54						mm/s			
Design Service fac					1.0)	2/3/4		dB(A)
Service fac					1.0 F							old/Equ	ally spre	ead		DOL		
					-20 to +	40		°C		ting me						Direct		
Ambient t	•				80 [Clas			۰C K		e of co		/l= = + / = =	-1)			15/30		-
Temperati Altitude al		• •			1000	-						(hot/co	a)		D	i-directional		5
Altitude al Hazardous					NA			meter			of rotation	on				ckwise form DE		
hazardous	Zone c				NA					nt shad					CIUC	RAL 5014		
	Gas gr		auon		NA					essorie	-					NAL 3014		
	Tempe	•	class		NA				ALL		s cessory -	. 1				-		
Rotor type		lature	. 01035	Alı	uminum [)ie cast										-		
Bearing ty					nti-frictic					Accessory - 2 Accessory - 3								
DE / NDE I					05-2Z / 6				Ter			x position			ТОР			
Lubricatio	0				ireased fo						•	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M20) x 1.5	
Type of gr					NA						erminal l		are Jize			able on Reques		

 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 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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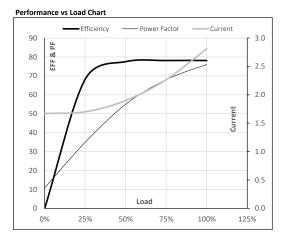
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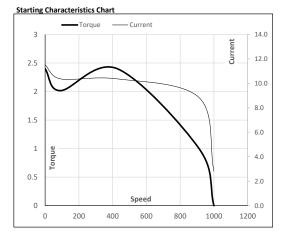
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	1.1	1.5	2.8	912	1.20	11.73	IE2	40	S1	1000	0.0048	27.2

Motor Load Dat	a						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.7	1.9	2.3	2.8	
Torque	Nm	0.0	2.7	5.6	8.5	11.7	
Speed	r/min	1000	980	961	939	912	
Efficiency	%	0.0	68.2	77.5	78.1	78.1	
Power Factor	%	10.8	34.9	55.0	68.0	76.0	



Motor Speed Torque Data													
	LR	P-Up	BD	Rated	NL								
r/min	0	91	428	912	1000								
А	11.5	10.4	8.8	2.8	1.7								
pu	2.4	2.0	2.4	1	0								
	r/min A	LR r/min 0 A 11.5	LR P-Up r/min 0 91 A 11.5 10.4	LR P-Up BD r/min 0 91 428 A 11.5 10.4 8.8	LR P-Up BD Rated r/min 0 91 428 912 A 11.5 10.4 8.8 2.8	LR P-Up BD Rated NL r/min 0 91 428 912 1000 A 11.5 10.4 8.8 2.8 1.7							



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

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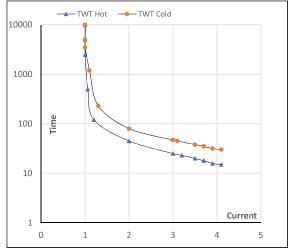
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2					IE		1	n	I	Р	P	f	Δ / Y	U	Enclosure
1 ²] [kg]	[kg-m ²]	[m]		[°C]	Class	[Nm]	[kgm]	[rpm]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
18 27.2	0.0048	1000	S1	40	IE2	11.73	1.20	912	2.8	1.5	1.1	50	Δ 0	220/380	TEFC
4	0.00	1000	51	40	IEZ	11.73	1.20	912	2.8	1.5	1.1	50	Δ	220/380	TEFC

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I_5	LR
TWT Hot	s	10000	45	30	25	20	16	15
TWT Cold	s	10000	80	55	47	38	32	30
Current	pu	1	2	2.5	3	3.5	4	4.1

Thermal Characteristics Chart



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

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