PRODUCT INFORMATION PACKET

Model No: SCA1P13A1121GAA001 Catalog No: SCA1P13A1121GAA001 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90L Frame, TEFC



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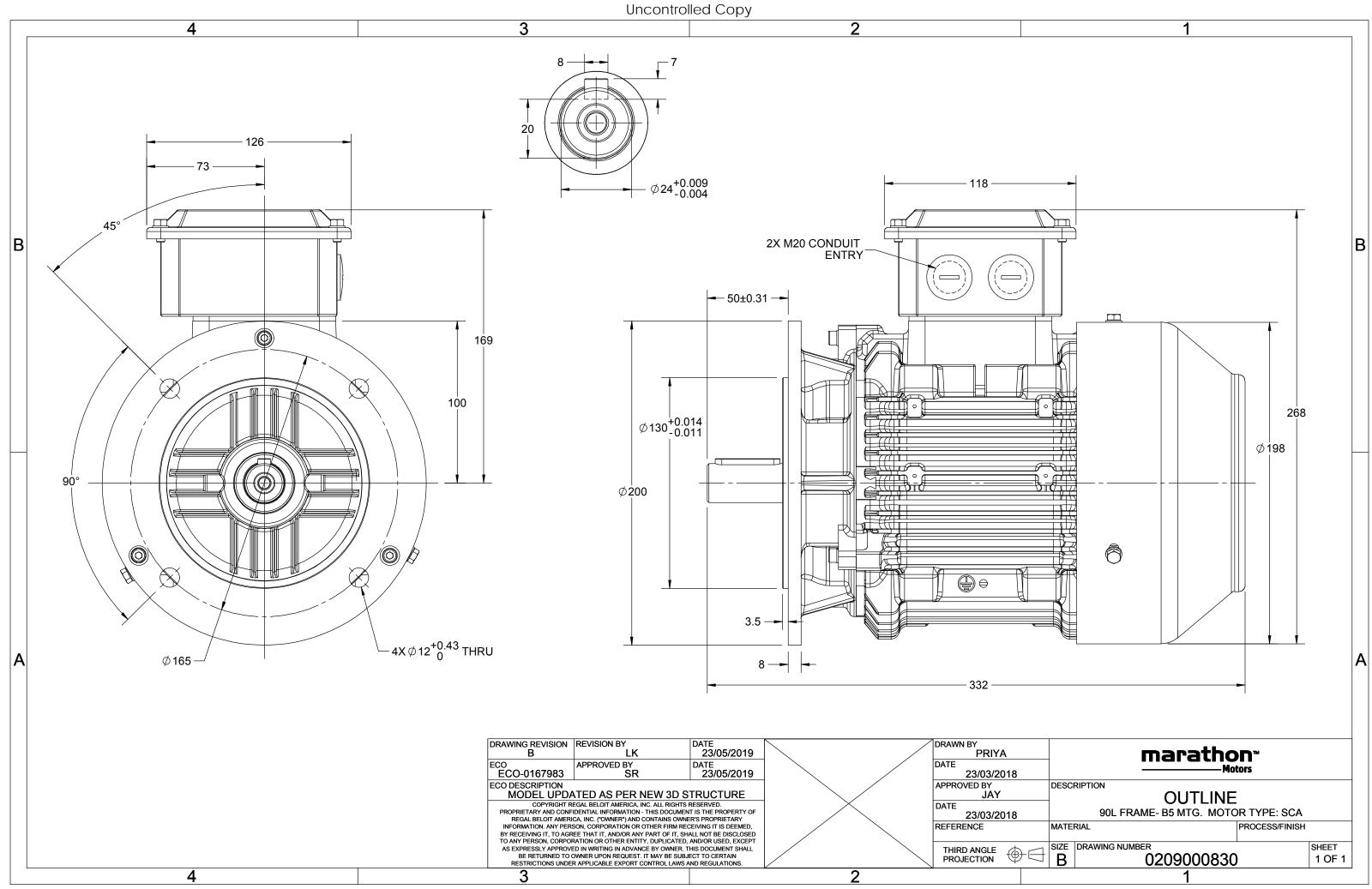
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.7 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	B5	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		
Connection Drawing	8442000085	Outline Drawing	0209000830

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TerraMAX[®]

Model No. SCA1P13A1121GAA001

400 Y 50 1.1 1.5 2.7 912 11.73 IE2 - 78.1 77.5 0.76 0.68 0.55 4.1 2.4 Motor type SCA Degree of protection IP 55 IM B5	U	Δ / Y	f	Р	Р)	I	n	Т	IE	9	% EFF a	t load	t	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
Motor typeSCADegree of protectionIP 55EnclosureTEFCMounting typeIM 85Frame MaterialCast IronCooling methodIC 411Frame MaterialCast IronCooling methodIC 411Frame Size90LMotor weight - approx.27.3DutyS1Gross weight - approx.28.3Voltage variation *± 10%Motor inertiaCoulomer to ProvideCombined variation *10%Vibration level1.6mDesignNNoise level (1meter distance from motor)54coService factor1.0No. of starts hot/cold/Equally spread2/3/4coAmbient temperature-20 to +40°CType of couplingDirectHazardous area classificationNAKKintheretionBi-directionalZone classificationNAAccessory - 1PTC 150°CRRotor typeAluminum Die castAccessory - 3De / NDE bearing6205-22 / 6205-22Terminal box positionTOP	(∨)	Conn	[Hz]	[kW]	[hp	o]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
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	Bearing	type				An	ti-frictio	n ball				Ac	cessory	- 3				-		
Lubrication method Greased for life Maximum cable size/conduit size 1R x 3C x 10mm ² /2 x M20 x 1.5	DE / ND	E beariı	ng			6205	5-2Z / 6	205-2Z			Ter	minal b	ox posit	ion				TOP		
	Lubricat	ion me	thod			Gr	eased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M2	0 x 1.5	
Type of grease NA Auxiliary terminal box Available on Request	Type of	grease					NA				Aux	iliary te	erminal	box			Avail	able on Reque	st	

 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 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30					

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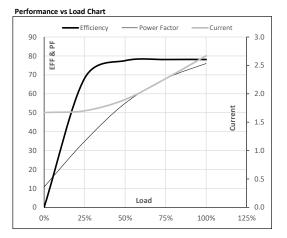
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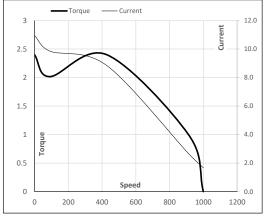
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	2	2.7	912	1.20	11.73	IE2	40	S1	1000	0.0048	27

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.7	1.9	2.3	2.7	
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 T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	428	912	1000	
Current	А	10.9	9.9	8.8	2.7	1.7	
Torque	pu	2.4	2.0	2.4	1	0	





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

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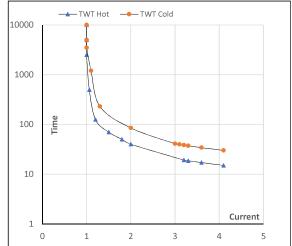
Model No. SCA1P13A1121GAA001

Enclosure	U	Δ / Y	f	Р	Ρ	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	400	Δ	50	1.1	1.5	2.7	912	1.20	11.73	IE2	40	S1	1000	0.0048	27.3

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	40	35	25	18	16	15
TWT Cold	s	10000	40	39	38	35	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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