## **PRODUCT INFORMATION PACKET**

Model No: SCA0113A4121GAA001 Catalog No: SCA0113A4121GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 160L Frame, TEFC



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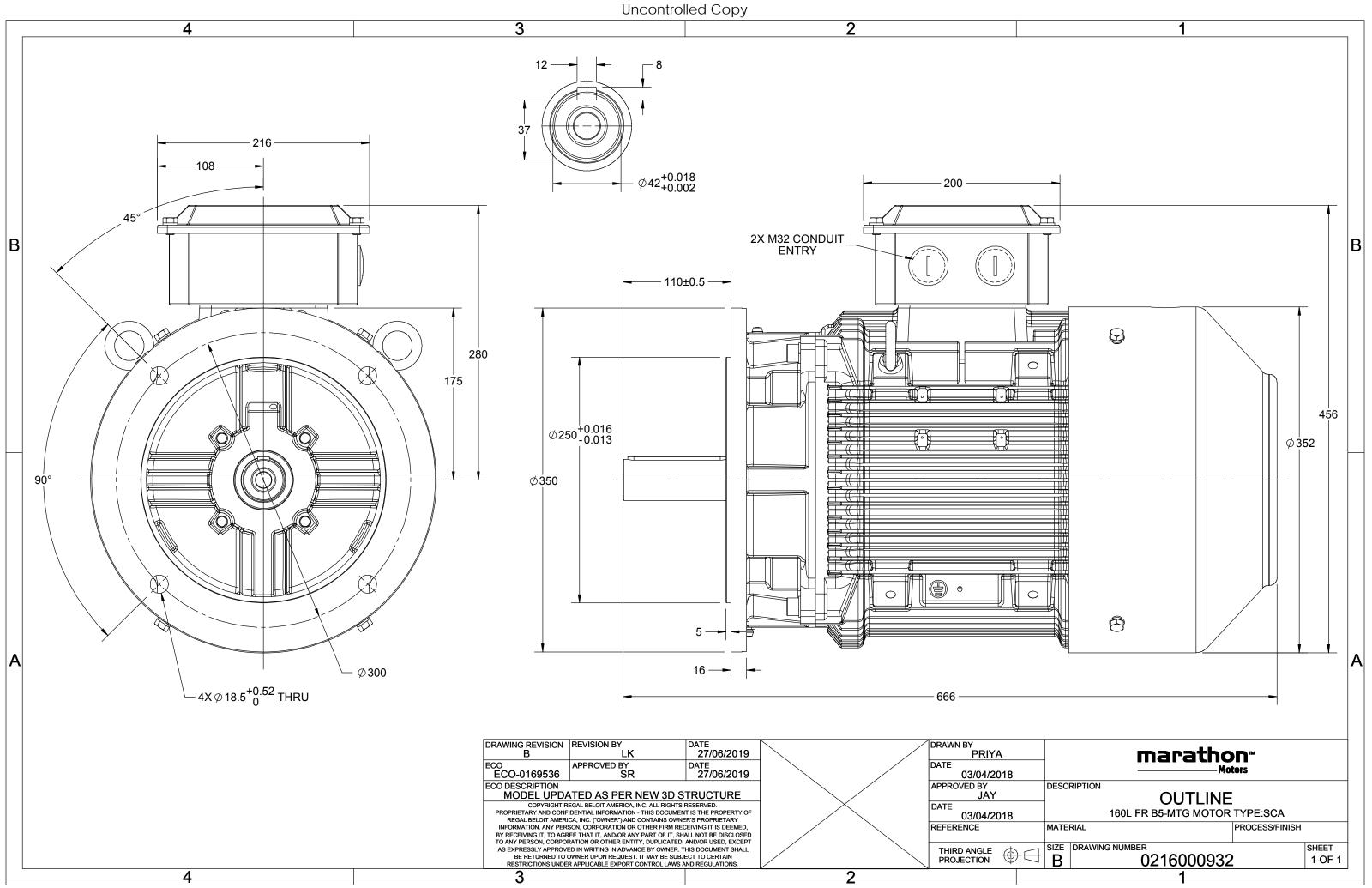
### Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	24.1 A	Speed	970 rpm		
Service Factor	1	Phase	3		
Efficiency	88.7 %	Power Factor	0.78		
Duty	S1	Insulation Class	F		
Frame	160L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	160L 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 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209		

### **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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000932

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U	Δ / Υ	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	11	15	24.2	970	108.20	IE2	-	88.7	88.7	, 87.3	0.78	0.75	0.65	5.8	2.4	3.4
Motor type	2				SCA				De	gree of	protecti	on				IP 55		
Enclosure							Mo	ounting	type					IM B5				
Frame Mat	ne Material Cast Iron						Co	oling m	ethod					IC 411				
Frame size	e size 160L						Mo	otor wei	ght - ap	prox.				152		kg		
Duty	S1					Gro	Gross weight - approx.						172					
Voltage var	riation *				± 10%	ò		Motor inertia								0.1530		kgm <sup>2</sup>
Frequency	cy variation * ± 5% L				Loa	ad inert	ia				Custo	omer to Provi	de					
Combined	ined variation * 10%				Vib	oration l	evel					2.2		mm/s				
Design					Ν				No	Noise level ( 1meter distance from motor)					r)	65		dB(A)
Service fact	tor				1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulation of	class				F				Sta	Starting method						DOL		
Ambient te	mperatu	ire			-20 to +	40		°C	Тур	Type of coupling						Direct		
Temperatu	re rise (b	y resist	ance)		80 [ Class	5 B ]		К	LR	withsta	nd time	(hot/co	old)			15/30		s
Altitude ab	ove sea l	evel			1000			meter	Dir	ection o	of rotatio	on			В	i-directional		
Hazardous	area clas	sificatio	on		NA				Sta	indard r	otation				Cloc	kwise form D	E	
	Zone cl	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Aco	cessorie	S							
	Temper	rature o	class		NA					Accessory - 1						-		
Rotor type				Al	uminum D	ie cast				Ace	cessory -	- 2				-		
Bearing typ	e			А	nti-frictio	n ball				Ace	cessory -	- 3				-		
DE / NDE b	earing			63	09-2Z / 6	209-2Z			Ter	Terminal box position						ТОР		
Lubrication	ation method Greased for life				Ma	•					IR x 3C x 35mm²/2 X M32 x 1.5							
Type of gre	ase				NA				Au	xiliary to	erminal	box			Availa	able on Reque	est	
0 -																		

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

NOTE

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				



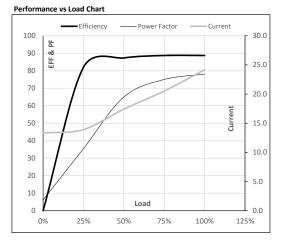
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	11	15	24.2	970	11.03	108.20	IE2	40	S1	1000	0.1530	152

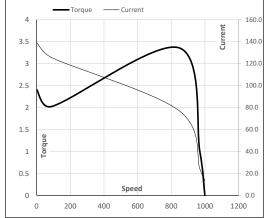
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	13.3	13.9	17.4	20.5	24.2	
Torque	Nm	0.0	27.0	54.2	81.9	108.2	
Speed	r/min	1000	994	988	981	970	
Efficiency	%	0.0	82.0	87.3	88.7	88.7	
Power Factor	%	6.2	35.5	65.0	75.0	78.0	



### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	845	970	1000	
Current	А	139.2	125.3	77.4	24.2	13.3	
Torque	pu	2.4	2.0	3.4	1	0	

### Starting Characteristics Chart



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

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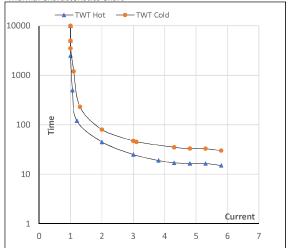
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/66	50 Δ	50	11	15	24.2	970	11.03	108.20	IE2	40	S1	1000	0.1530	152

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	ا5	LR
TWT Hot	s	10000	45	25	18	17	16	15
TWT Cold	s	10000	80	47	43	33	32	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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