PRODUCT INFORMATION PACKET

Model No: SCA0113A1121GAA001 Catalog No: SCA0113A1121GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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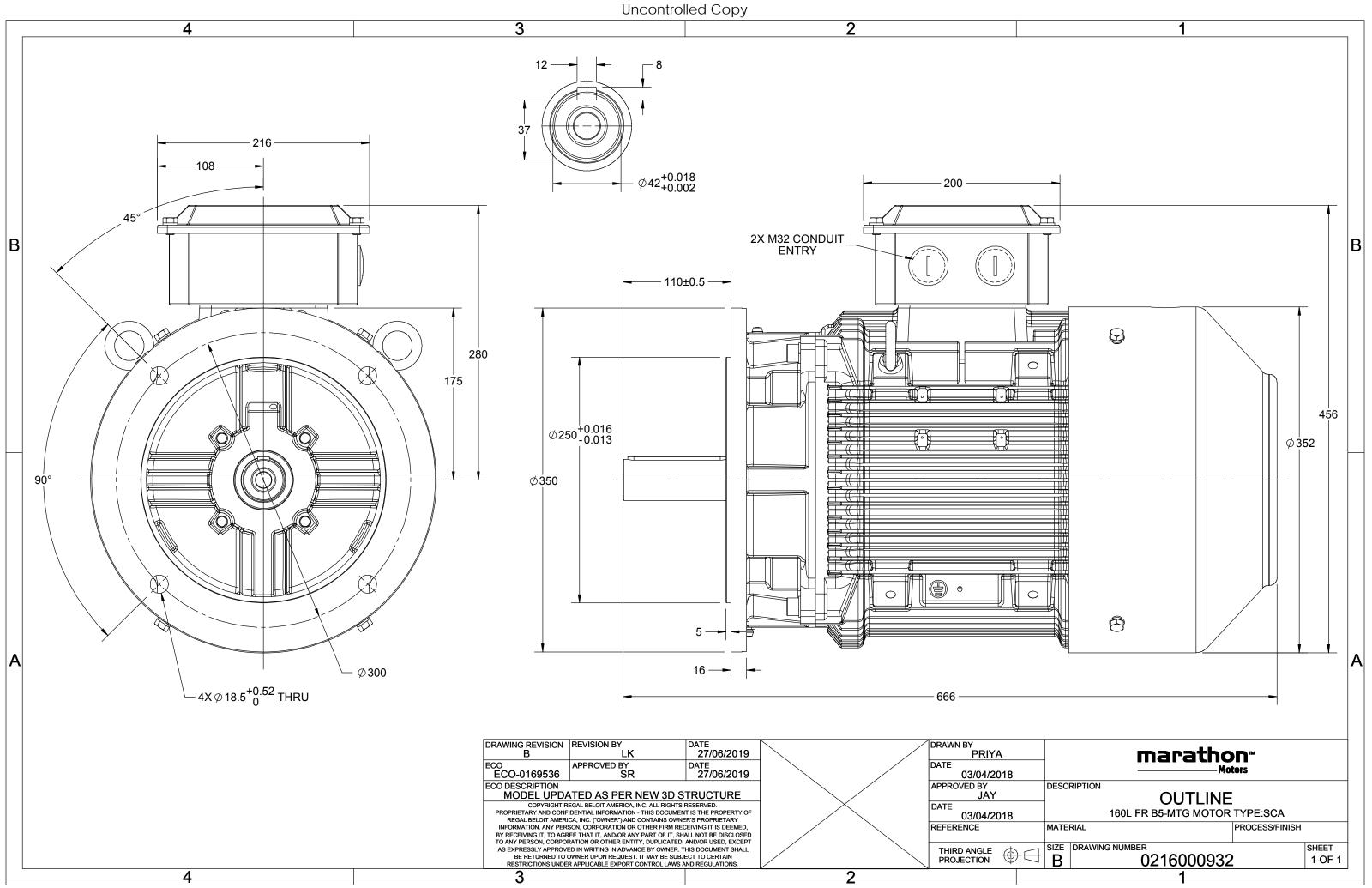
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.9 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		
Outline Drawing	0216000932	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE	ģ	% EFF at	t load	d	PF	at_lo	ad	I _A /I _N	T_A/T_N	T _K /T _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	Δ	50	11	15	22.9	970	108.20	IE2	-	88.7	88.7	87.3	0.78	0.75	0.65	5.76420106	2.4	3.4
Motor	type				SCA				Dee	ree of r	orotecti	on				IP 55		
Enclosi	<i>'</i> ''				TEFC					unting t		011				IM B5		
Frame	Material	1			Cast Iro	on				ling me						IC 411		
Frame	size				TEFC Cast Iron 160L S1 ± 10% ± 5% 10% N 1.0					0	ght - ap	prox.			152			kg
Duty					S1											172		kg
•	e variatio	on *			± 10%	5		Gross weight - approx. Motor inertia Load inertia							0.1530		kgm ²	
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Provid	е	-
Combir	ned varia	ation *			10%				Vib	Vibration level						2.2		mm/s
Design				Ν				Noi	se level	(1mete	er distar	nce fron	n motor)	65		dB(A)	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulati	ion class				F				Star	rting me	ethod				DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	resistanc	e)	80 [Clas	5 B]		К	LR v	withstar	nd time	(hot/co	ld)		30/15			s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	Bi-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard ro	otation				Cloc	ckwise form DE		
	Zone cla	assifica	tion		NA				Pair	nt shade	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	essory	- 1				PTC 150°C		
Rotor t	уре			Al	uminum D)ie cast				Acc	essory	- 2				-		
Bearing	g type				Anti-frictio					Acc	essory	- 3				-		
DE / NE	DE bearii	ng			09-2Z / 6				Terr	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		(Greased fo	or life						ze/cond	uit size	1R		35mm²/2 X M3		
Type of	f 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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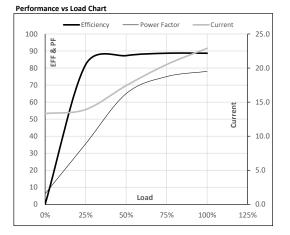
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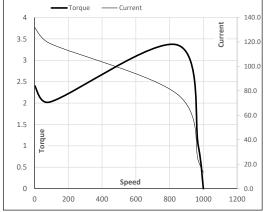
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.9	970	11.03	108.20	IE2	40	S1	1000	0.1530	152

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	13.3	13.9	17.4	20.5	22.9	
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 T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	845	970	1000	
Current	А	132.0	118.8	77.4	22.9	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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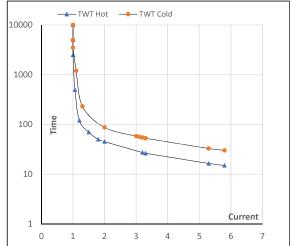
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	22.9	970	11.03	108.20	IE2	40	S1	1000	0.1530	152

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	36	25	20	16	15
TWT Cold	s	10000	59	55	50	45	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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