PRODUCT INFORMATION PACKET

Model No: SCA0032A1121GAA001 Catalog No: SCA0032A1121GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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Motors



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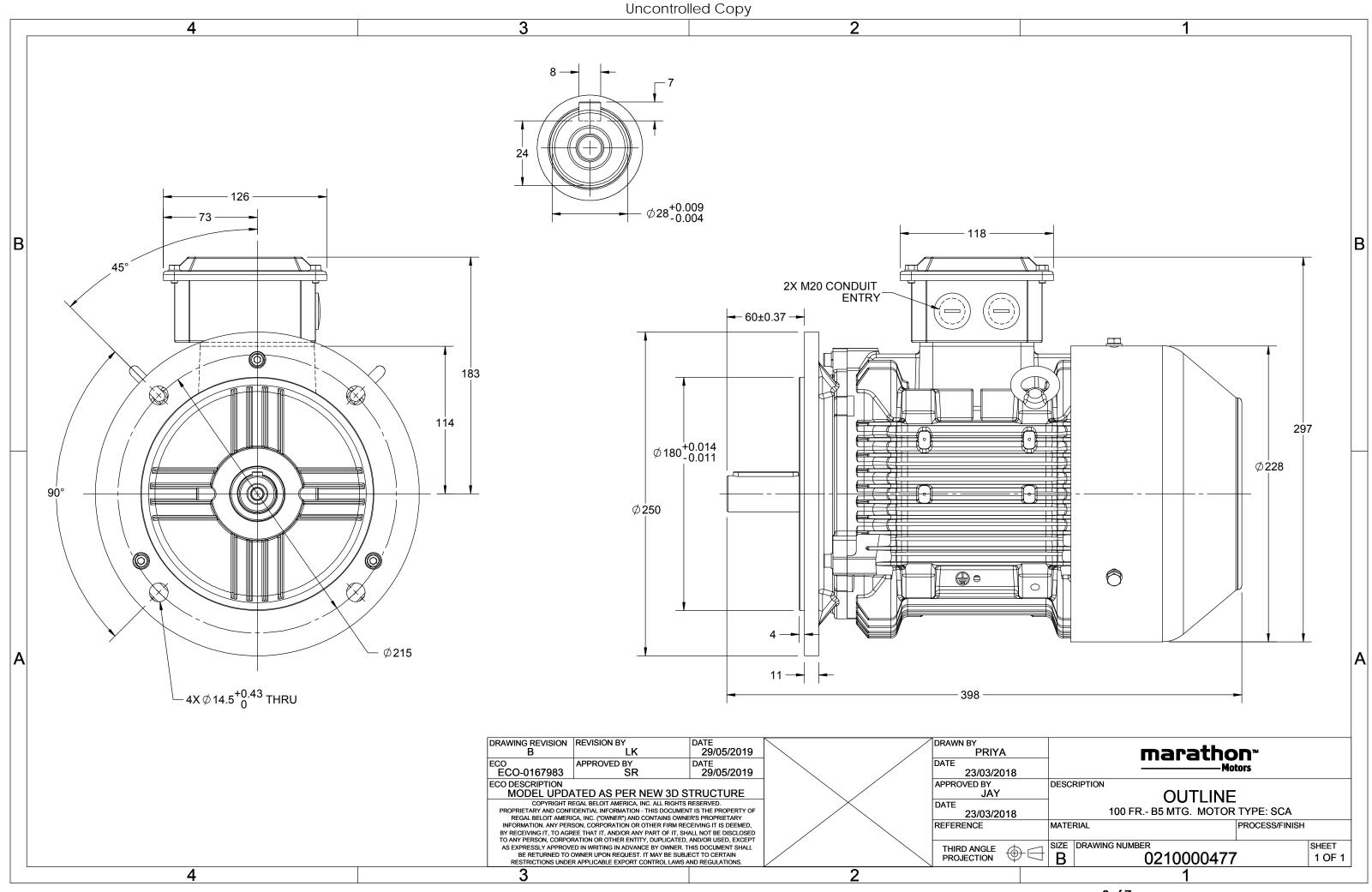
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	6.0 A	Speed	1434 rpm
Service Factor	1	Phase	3
Efficiency	85.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
_			
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	100L No Protection	Enclosure Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0210000477	Connection Drawing	8442000085

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Model No. SCA0032A1121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF at	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]	
400	Y	50	3	4.0	6.0	1434	19.86	IE2	-	85.5	85.5	85.3	0.84	0.77	0.64	6.4	2.8	3.0	
Motor	type				SCA				Deg	gree of p	orotecti	on				IP 55			
Enclosu	ure				TEFC				Мо	Mounting type						IM B5			
Frame	Material				Cast Ire	on	Coc	ling me	thod					IC 411					
Frame	size				100L	TEFC Mounting type ast Iron Cooling method 100L Motor weight - approx. \$1 Gross weight - approx. ± 10% Motor inertia ± 5% Load inertia 10% Vibration level N Noise level (1meter distance from 1.0 No. of starts hot/cold/Equally spread F Starting method 0 to +40 °C							40						
Duty					S1			Cooling method Motor weight - approx. Gross weight - approx. Motor inertia Load inertia Vibration level Noise level (1meter distance from r No. of starts hot/cold/Equally sprea						Gross weight - approx.					
Voltage	e variatio	n *			± 10%	6			Motor inertia							0.0074		kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia						Cust	omer to Provi	de		
Combir	ned varia	tion *			10%								1.6			mm/s			
Design					Ν					se level	(1mete	er distar	nce fron	n motor)	58		dB(A)	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulati	ion class				F				Sta	Starting method					DOL				
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	e of cou	upling					Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	s B]		К	LR v	withstar	nd time	(hot/co	ld)			20/10		S	
Altitud	e above	sea lev	el		1000)		meter	Dire	ection o	f rotatio	on			В	Bi-directional			
Hazard	ous area	l classif	ication		NA				Sta	ndard ro	otation				Cloc	ckwise form D	E		
	Zone cla	assifica	tion		NA				Pair	nt shade	5					RAL 5014			
	Gas gro	up			NA				Acc	essorie	S								
	Temper	ature c	lass		NA					Acc	essory	- 1				PTC 150°C			
Rotor t	ype			Alı	uminum [Die cast				Accessory - 2					-				
Bearing	g type			A	nti-frictic	on ball				Acc	essory	- 3				-			
DE / NI	DE bearii	ng		620	06-2Z / e	5206-2Z			Ter	minal b	ox posit	ion				TOP			
Lubrica	ition me	thod		G	ireased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M	20 x 1.5		
Type of	f grease				NA				Aux	iliary te	rminal	хоо			Avail	able on Requ	est		

 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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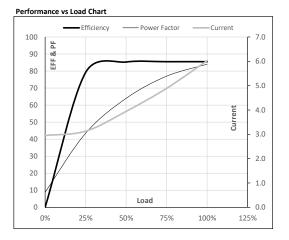
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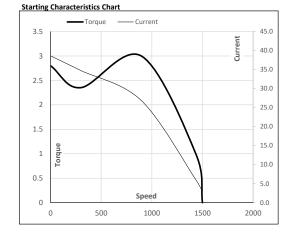
Model No. SCA0032A1121GAA001

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	3	4	6.0	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40

Motor Load Data	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.0	3.1	3.9	4.9	6.0	
Torque	Nm	0.0	4.8	9.7	14.7	19.9	
Speed	r/min	1500	1485	1470	1453	1434	
Efficiency	%	0.0	79.2	85.3	85.5	85.5	
Power Factor	%	8.9	43.5	64.0	77.0	84.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	896	1434	1500	
Current	А	38.6	34.7	26.9	6.0	3.0	
Torque	pu	2.8	2.4	3.0	1	0	



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

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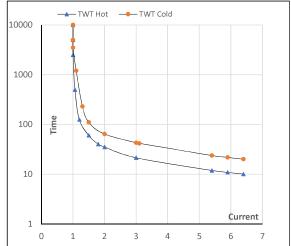
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	6.0	1434	2.03	19.86	IE2	40	S1	1000	0.0074	40

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	21	18	14	11	10
TWT Cold	s	10000	64	43	40	30	22	20
Current	pu	1	2	3	4	5	5.5	6.4

Thermal Characteristics Chart



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

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