PRODUCT INFORMATION PACKET

Model No: SCA18P3A1121GAA001 Catalog No: SCA18P3A1121GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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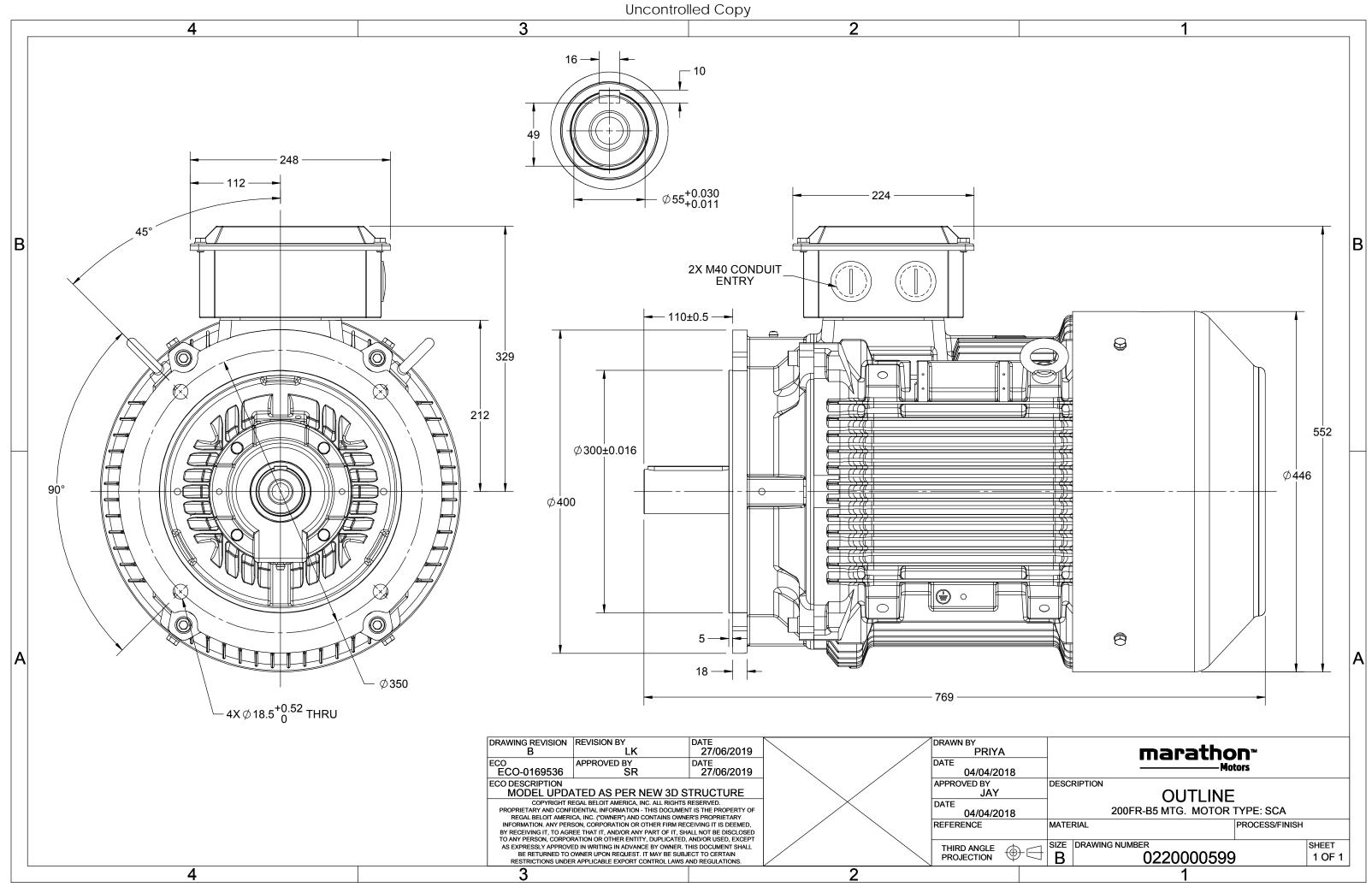
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	35.6 A	Speed	977 rpm		
Service Factor	1	Phase	3		
Efficiency	90.4 %	Power Factor	0.83		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
			No		
UL	No	CSA	No		
UL CE	No Yes	CSA IP Code	No 55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000599

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Model No. SCA18P3A1121GAA001

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	$T_{\rm K}/T_{\rm N}$
(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	Δ	50	18.5	25	35.6	977	182.36	IE2	-	90.4	90.4	90.9	0.83	0.8	0.7	5.1	1.7	2.1
			1					1	_									
Motor					SCA					, ,	orotecti	on				IP 55		
Enclosu					TEFC					Mounting type						IM B5		
	Material				Cast Iro					Cooling method Motor weight - approx.						IC 411		
Frame	size				200L											260		kg kg
Duty					S1					Gross weight - approx.						290		
	e variatio				± 10%	-				tor iner					0.3254 Customer to Provide			kgm ²
		cy variation * ± 5%						d inerti	-				Custo		de			
		variation * 10%					ration le						2.2		mm/s			
Design				Ν			Noi	Noise level (1meter distance from motor)					,			dB(A)		
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			
Insulat	ion class				F				Sta	Starting method					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	5 B]		K	LR v	LR withstand time (hot/cold)					30/15			S
Altitud	e above	sea lev	el		1000			meter	Dire	Direction of rotation					Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	Ε	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					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 D)ie cast				Acc	essory -	- 2			-			
Bearing	g type			A	nti-frictio	n ball				Acc	essory -	- 3				-		
DE / N	DE bearii	ng		63	12 C3 / 6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
Type of	f grease			CHEVRC	DN SRI-2 c	r Equival	ent		Aux	iliary te	erminal l	box			Avail	able on Requ	est	

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

T_K/T_N - Breakdown Torque / Rated Torque

 $T_{\rm A}/T_{\rm N}$ - Locked Rotor 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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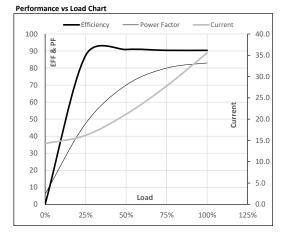
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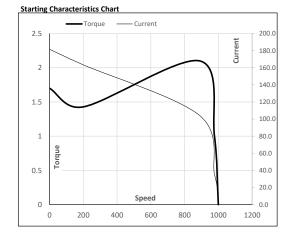
Model No. SCA18P3A1121GAA001

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	18.5	25	35.6	977	18.60	182.36	IE2	40	S1	1000	0.3254	260

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	14.3	16.2	21.2	27.8	35.6	
Torque	Nm	0.0	44.8	90.0	135.8	182.4	
Speed	r/min	1000	995	989	983	977	
Efficiency	%	0.0	87.4	90.9	90.4	90.4	
Power Factor	%	6.0	47.5	70.0	80.0	83.0	



Motor Speed T	orque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	889	977	1000	
Current	А	181.5	163.4	104.2	35.6	14.3	
Torque	pu	1.7	1.4	2.1	1	0	



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

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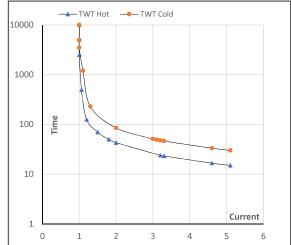
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	35.6	977	18.60	182.36	IE2	40	S1	1000	0.3254	260

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	43	30	22	17	16	15
TWT Cold	s	10000	50	48	45	34	32	30
Current	pu	1	2	3	4	4.5	5	5.1

Thermal Characteristics Chart



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

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