PRODUCT INFORMATION PACKET

Model No: SCA0301A1111GAA001 Catalog No: SCA0301A1111GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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Motors

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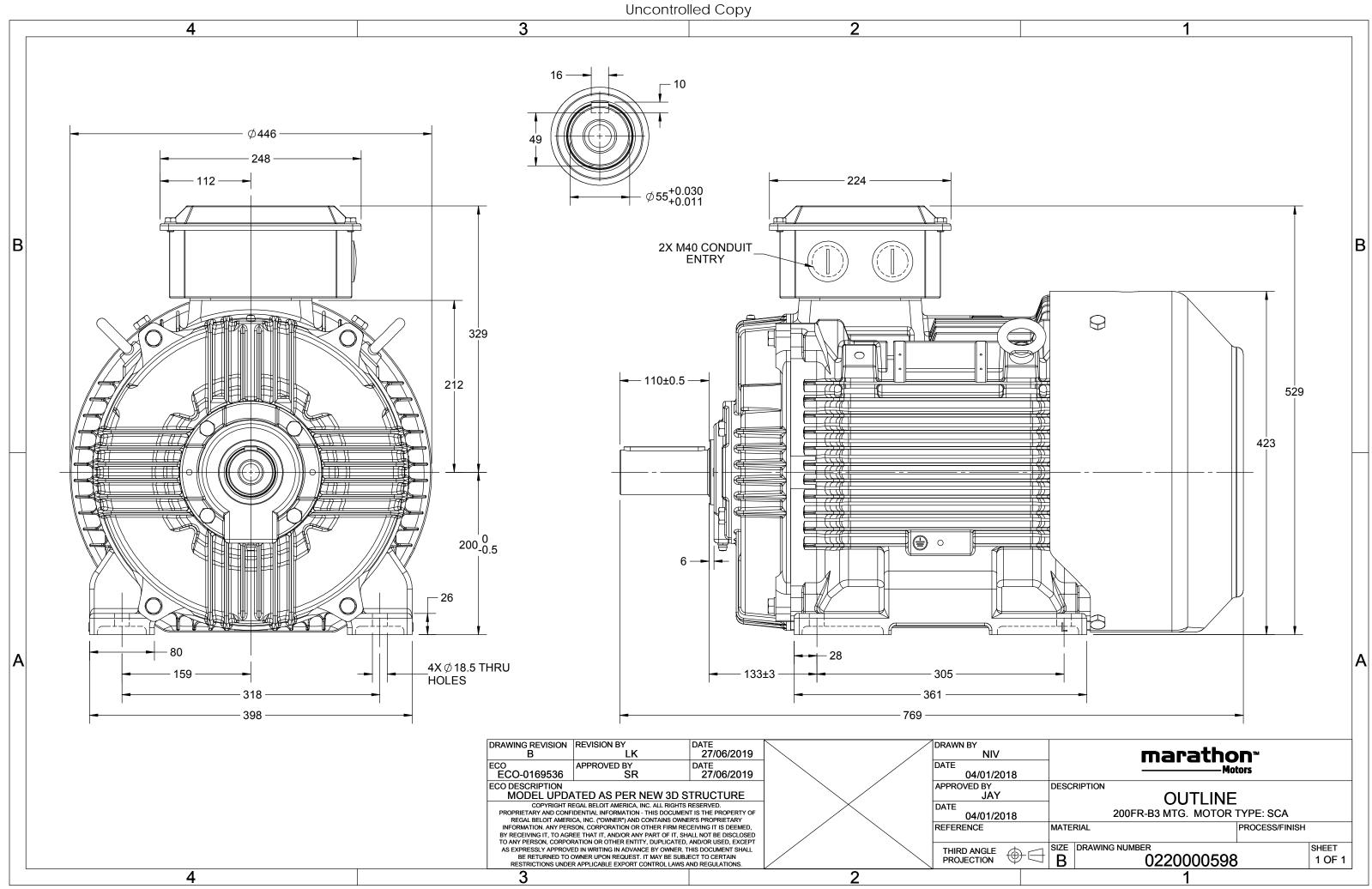
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	52.3 A	Speed	2953 rpm
Service Factor	1	Phase	3
Efficiency	92 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection		40.00
		Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
		· · · ·	
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
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	0220000598

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Model No. SCA0301A1111GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE	9	% EFF a	it loa	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	30	40	52.3	2953	96.47	IE2	-	92	92	91.5	0.9	0.88	0.81	6.3	1.9	3.0
Motor	type				SCA				Deg	ree of	protecti	on				IP 55		
Enclosu	ure				TEFC				Mo	unting	type					IM B3		
Frame	Material				Cast Ire	on			Coo	ling m	ethod					IC 411		
Frame	size				200L				Mo	tor wei	ight - ap	prox.				259		kg
Duty					S1			Gro	Gross weight - approx.						289			
Voltage	e variatio	on *			± 10%	Ď			Mo	tor ine	rtia					0.1687		kgm ²
Freque	ency variation * ± 5%						Loa	d inert	ia				Custo	omer to Provi	de			
Combir	ned varia	ariation * 10%					Vibr	ration l	evel					2.2		mm/s		
Design					Ν				Noi	Noise level (1meter distance from motor))	77		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class				F				Star	Starting method						DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	se (by i	resistanc	e)	80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)			25/12		S
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	es							
	Temper	ature o	lass		NA					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			Alı	uminum [Die cast				Ac	cessory	- 2			-			
Bearing	g type			A	nti-frictic	n ball				Ac	cessory	- 3			-			
DE / NI	DE bearii	ng		63	12 C3 / 6	212 C3			Terr	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Max							R x 3C x 50mm²/2 x M40 x 1.5		
Type of	f grease			CHEVRO	ON SRI-2 d	or Equivale	ent		Aux	iliary to	erminal	box			Avail	able on Requ	est	

 $I_{\text{A}}/I_{\text{N}}$ - 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 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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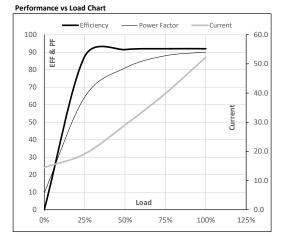
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Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	259

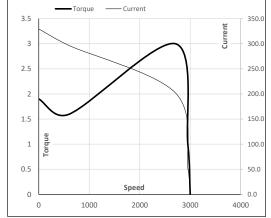
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	14.5	19.1	29.0	39.9	52.3	
Torque	Nm	0.0	23.8	47.8	72.0	96.5	
Speed	r/min	3000	2988	2977	2966	2953	
Efficiency	%	0.0	87.5	91.5	92.0	92.0	
Power Factor	%	9.6	64.3	81.0	88.0	90.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2707	2953	3000	
Current	А	329.5	296.5	202.2	52.3	14.5	
Torque	pu	1.9	1.6	3.0	1	0	

Starting Characteristics Chart



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

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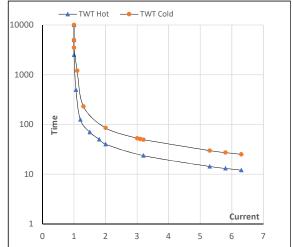
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Enclosure	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	52.3	2953	9.84	96.47	IE2	40	S1	1000	0.1687	259

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	I ₅	LR
TWT Hot	S	10000	40	24	20	16	14	12
TWT Cold	S	10000	51	50	40	32	28	25
Current	pu	1	2	3	4	5	5.5	6.3

Thermal Characteristics Chart



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

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