### **PRODUCT INFORMATION PACKET**

Model No: SCA0223A4111GAA001 Catalog No: SCA0223A4111GAA001 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 200L Frame, TEFC



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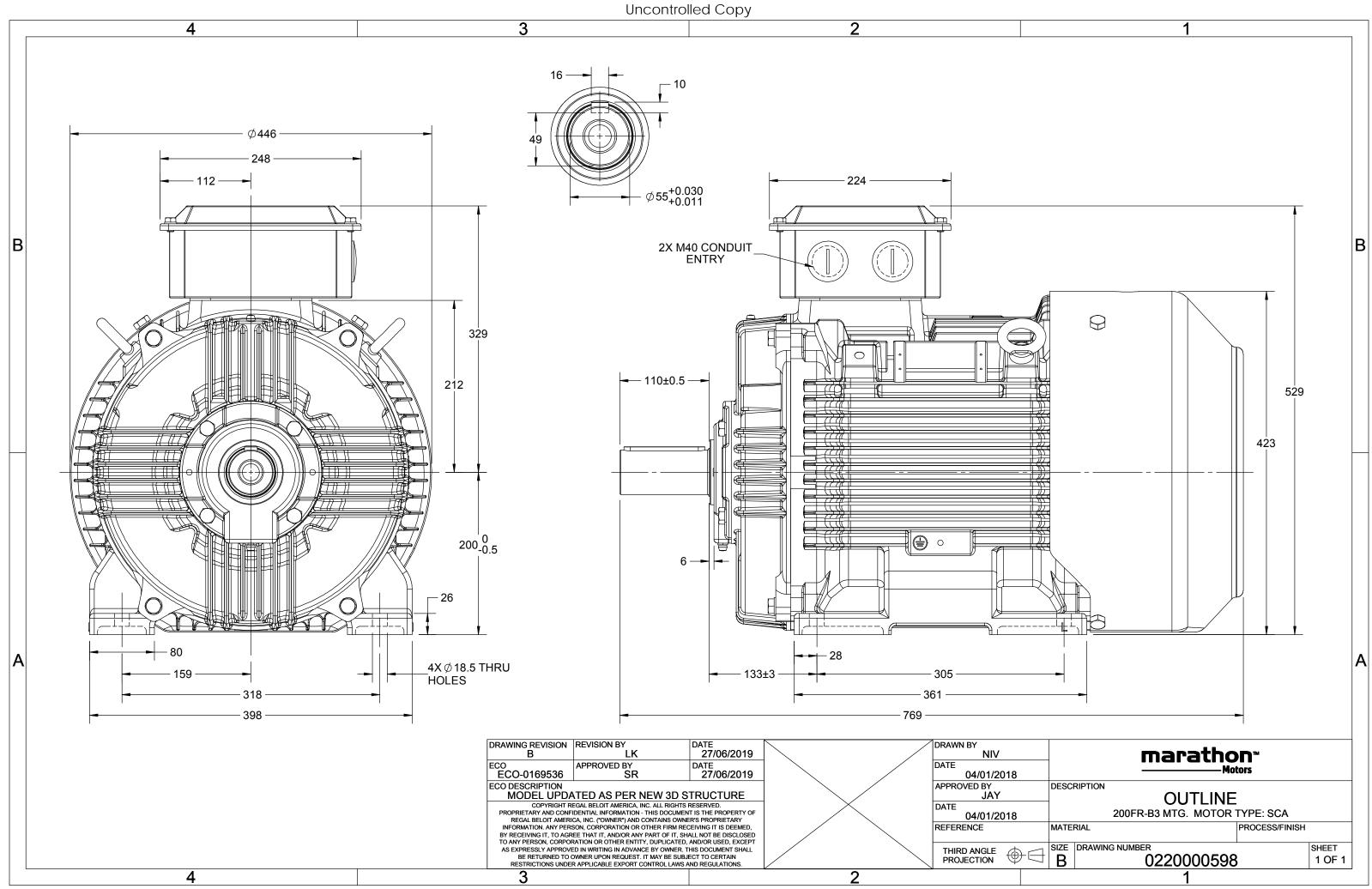
#### Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	44.3 A	Speed	977 rpm		
Service Factor	actor 1 Phase		3		
Efficiency	90.9 %	Power Factor	0.83		
Duty	S1 Insu		F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
		· · · · · ·	40 0		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
Drive End Bearing Size	6312 No				
		Opp Drive End Bearing Size	6212		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	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		
Outline Drawing	0220000598	Connection Drawing	8442000085

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			1															
U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	22	30	44.3	977	218.67	IE2	-	90.9	90.9	91.4	0.83	0.79	0.69	5.3	1.8	2.2
Motor typ	e				SCA				Degree of protection						IP 55			
Enclosure					TEFC				Mounting type							IM B3		
Frame Ma	terial				Cast Iro	on			Cooling method						IC 411			
Frame size	1				200L				Motor weight - approx.						267		kg	
Duty					S1				Gro	ss weig	ht - app	rox.			297			kg
Voltage va	riation	*			± 10%	Ď			Mo	tor iner	tia				0.3694			kgm <sup>2</sup>
Frequency	variatio	on *			± 5%				Loa	d inerti	а				Custo	omer to Provi	de	
Combined	variatio	on *			10%				Vibr	ation l	evel					2.2		mm/s
Design					Ν				Nois	se level	(1mete	er distan	nce fron	n motor	)	65		dB(A)
Service fac	tor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation	class				F				Star	ting m	ethod					DOL		
Ambient te	empera	ture			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperati			istance)		80 [ Class	s B ]		К				(hot/co	ld)			15/30		S
			,		1000											; discotional		

Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	NA		Standard rotation	Clockwise form DE
Zone classification	NA		Paint shade	RAL 5014
Gas group	NA		Accessories	
Temperature class	NA		Accessory - 1	-
Rotor type	Aluminum Die cast		Accessory - 2	-
Bearing type	Anti-friction ball		Accessory - 3	-
DE / NDE bearing	6312 C3 / 6212 C3		Terminal box position	ТОР
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 x 1.5
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	Available on Request

 $I_{\text{A}}/I_{\text{N}}$  - Locked Rotor Current / Rated Current  $T_{\text{A}}/T_{\text{N}}$  - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30				



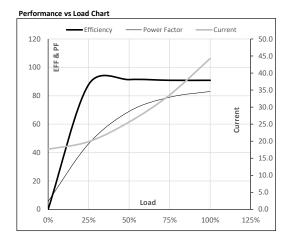
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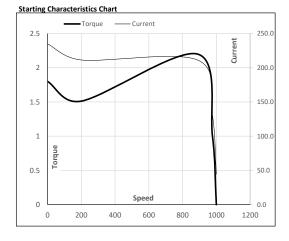
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Enclosure	U (V)	$\Delta / Y$ Conn	f [Hz]	P [kW]	P [hp]	۱ [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	380/660	Δ	50	22	30	44.3	977	22.30	218.67	IE2	40	S1	1000	0.3694	267

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	17.6	19.9	25.6	33.6	44.3	
Torque	Nm	0.0	53.7	108.0	162.9	218.7	
Speed	r/min	1000	995	990	984	977	
Efficiency	%	0.0	87.9	91.4	90.9	90.9	
Power Factor	%	5.6	46.2	69.0	79.0	83.0	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	888	977	1000	
Current	А	234.8	211.3	129.8	44.3	17.6	
Torque	pu	1.8	1.5	2.2	1	0	



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

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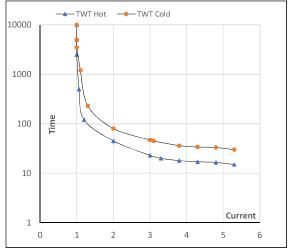
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Enclosure	$U = \Delta / Y$	Ť	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(	(V) Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 38	80/660 Δ	50	22	30	44.3	977	22.30	218.67	IE2	40	S1	1000	0.3694	267

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	LR
TWT Hot	s	10000	45	23	18	17	16	15
TWT Cold	s	10000	80	47	36	34	33	30
Current	pu	1	2	3	4	4.5	5	5.3

Thermal Characteristics Chart



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

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