PRODUCT INFORMATION PACKET



Model No: SCA0901A4113GAA001 Catalog No: SCA0901A4113GAA001 TerraMAX® Cast Iron Motor, 120 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 280M Frame, TEFC



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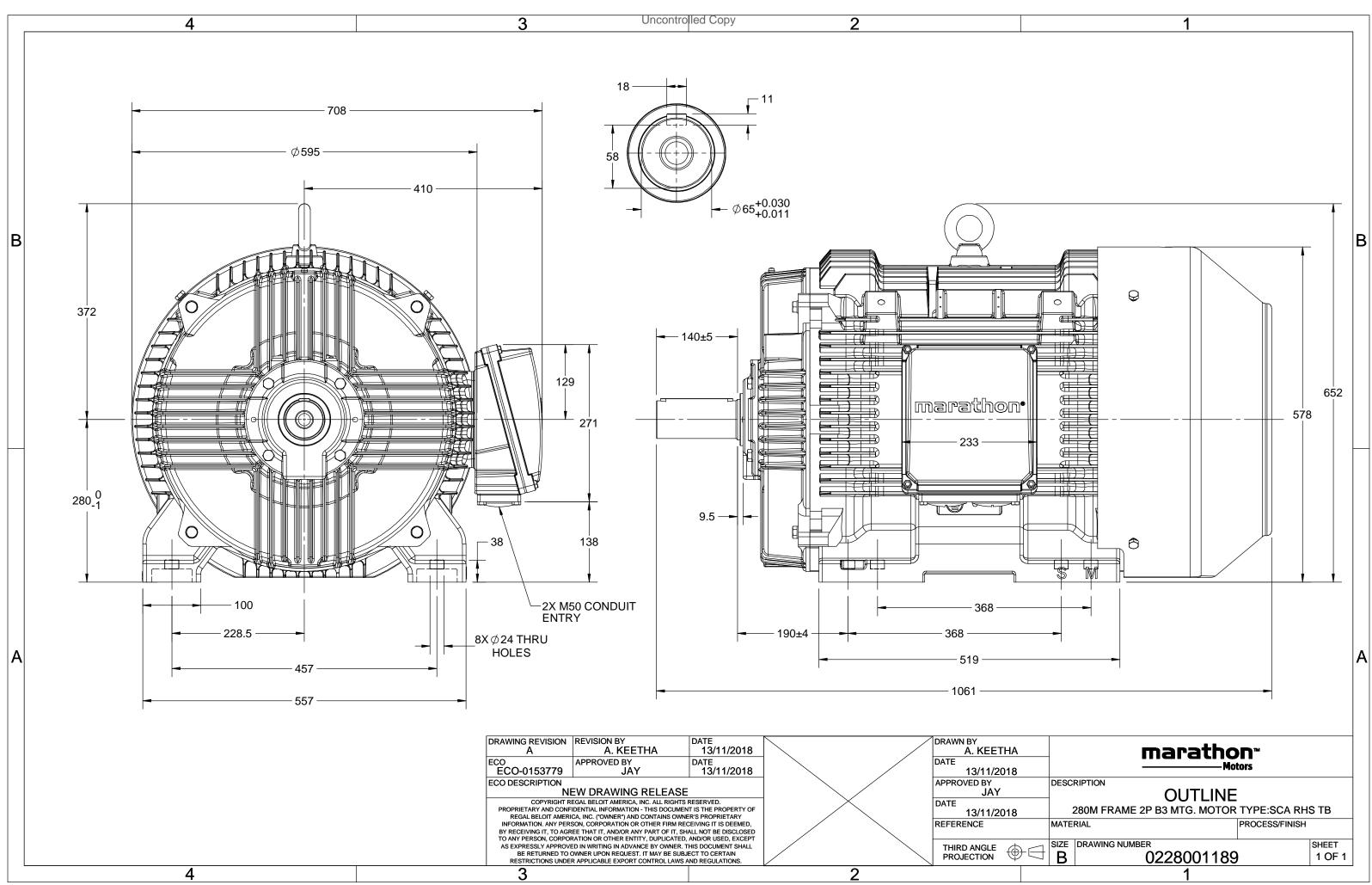
Nameplate Specifications

Output HP	120 Нр	Output KW	90.0 kW	
Frequency	50 Hz	Voltage	380/660 V	
Current	161.5 A	Speed	2979 rpm	
Service Factor	1	Phase	3	
Efficiency	94.1 %	Power Factor	0.90	
Duty	S1	Insulation Class	F	
Frame	280M	Enclosure	Totally Enclosed Fan Cooled	
Frame Thermal Protection	280M 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 6314	Ambient Temperature Opp Drive End Bearing Size	40 °C 6314	

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	2	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	1061 mm	Frame Length	550 mm		
Shaft Diameter	65 mm	Shaft Extension	140 mm		
Assembly/Box Mounting	R Side				
Connection Drawing	8442000085	Outline Drawing	0228001189		

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U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	tload	ł	PF at load			I _A /I _N	T_A/T_N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL		FL		1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	90	120	161.5	2979	286.88	IE2	-	94.1	94.1	, 93.6	0.9	0.88	, 0.8	7.6	2.3	3.5
-																		
Motor type				SCA						protecti	on				IP 55			
Enclosure					TEFC					unting						IM B3		
Frame Ma					Cast Irc					oling me					IC 411			
Frame size	2				280M						ght - ap					657		
Duty					S1				Gro	Gross weight - approx.				692			kg	
Voltage va	riation *				± 10%	,			Mo	Motor inertia				0.8662			kgm ²	
Frequency	ency variation * ± 5% Load inertia					Customer to Provide												
Combined	variatio	iation * 10% Vibration level						2.2			mm/s							
Design	Design N						Noi	Noise level (1meter distance from motor) 80			dB(A)			
Service fac	tor				1.0				No. of starts hot/cold/Equally spread			2/3/4						
Insulation	class				F				Sta	rting m	ing method DOL				DOL			
Ambient te	emperat	ure			-20 to +	40		°C	Тур	e of co	upling		Direct					
Temperatu	ure rise (by resis	stance)		80 [Class	B]		К	LR v	withsta	nd time	(hot/co	/cold) 7/15				S	
Altitude at	oove sea	level			1000			meter	Dire	ection c	of rotation	on	, Bi-directional					
Hazardous	dous area classification NA Standard rotation					Clockwise form DE												
	Zone classification NA Paint shade					RAL 5014												
	Gas gro	quo			NA			Accessories										
Temperature class NA						Accessory - 1			-									
Rotor type Aluminum Die cast					Accessory - 2				-									
	Bearing type Anti-friction ball				Accessory - 3													
	DE / NDE bearing 6314 C3 / 6314 C3				Terminal box position RHS													
Lubrication	0	d			Regreasa	ble								95mm²/2 x M5	0 x 1.5			
Type of gr		••		CHEVRO	DN SRI-2 o		ent						able on Reque					
The of Bicase									Auxiliary terminar box									

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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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