PRODUCT INFORMATION PACKET

Model No: SCA2503A4121GAA001 Catalog No: SCA2503A4121GAA001 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355L Frame, TEFC



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Motors

Product Information Packet: Model No: SCA2503A4121GAA001, Catalog No:SCA2503A4121GAA001 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 355L Frame, TEFC

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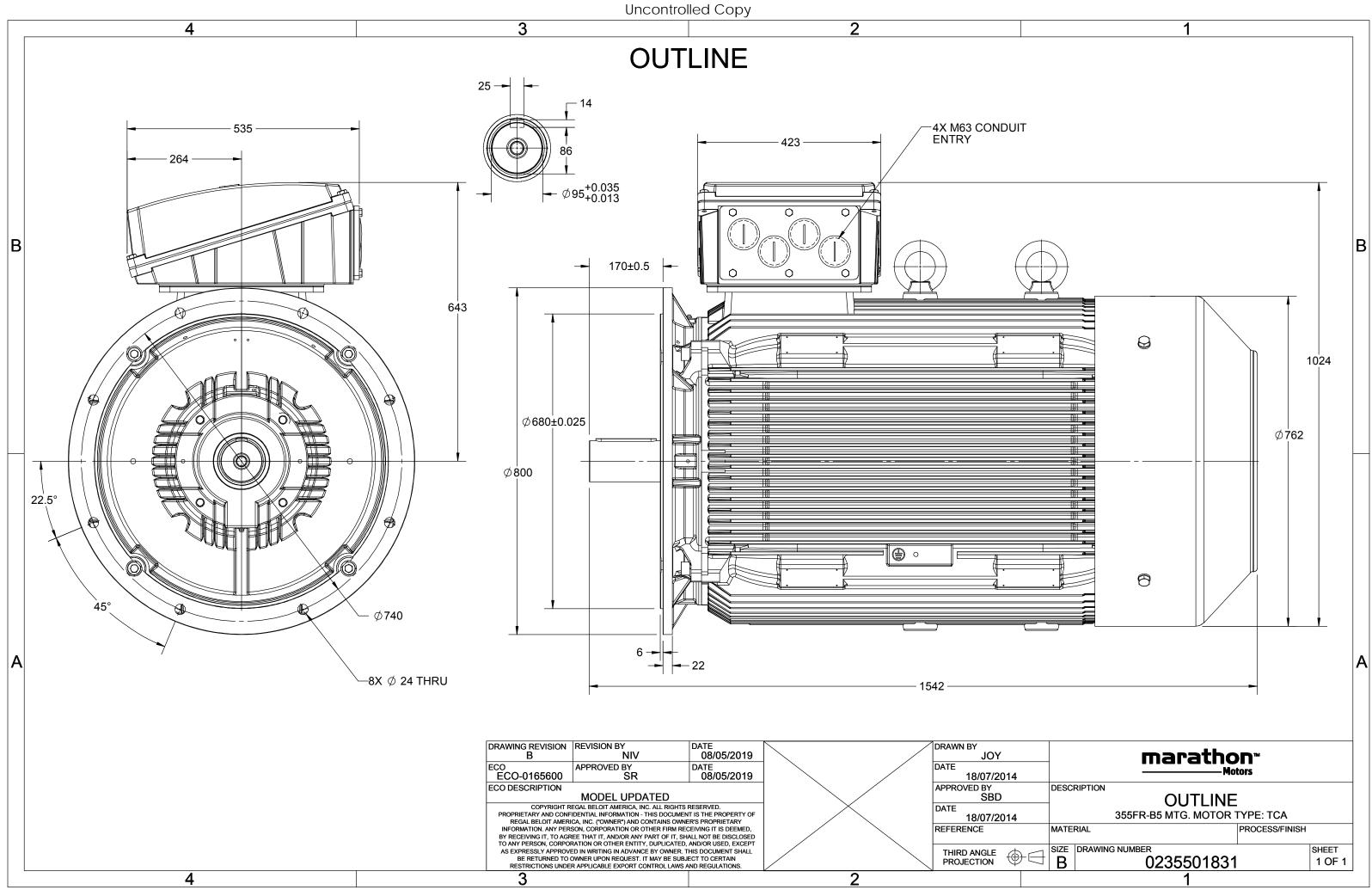
Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW		
Frequency	50 Hz	Voltage	380/660 V		
Current	459.6 A	Speed	991 rpm		
Service Factor	1	Phase	3		
Efficiency	95 %	Power Factor	0.87		
Duty	S1	Insulation Class	F		
Frame	355L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322		
		-			
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322		

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	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0235501831	Connection Drawing	8442000085	

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Model No. SCA2503A4121GAA001

			г <u>. </u>													. /		
U	Δ / Y	f	Р	Р	1	n	Т	IE			t load			at_lo		I _A /I _N		T _K ∕T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	,	1/2FL	FL		1/2FL	[pu]	[pu]	[pu]
380/660	Δ	50	250	335	459.6	991	2408.32	IE2	-	95	95	95.7	0.87	0.84	0.76	6.1	2.0	2.4
Motor type	2				SCA				Deg	gree of	protecti	on				IP 55		
Enclosure					TEFC				Mo	ounting	type					IM B5		
Frame Mat	erial				Cast Iro	n			Cod	oling m	ethod					IC 411		
Frame size					355L				Mo	otor we	ght - ap	prox.				1856		kg
Duty					S1				Gro	oss weig	ght - app	rox.					kg	
Voltage var	riation *				± 10%				Mo	Motor inertia						11.7080		kgm ²
Frequency	variation	*			± 5%				Load inertia					Custo	omer to Provi	de		
Combined	variation	*			10%				Vib	ration	evel					2.8		mm/s
Design					Ν				No	Noise level (1meter distance from motor)					or) 70			dB(A)
Service fact	tor				1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulation of	class				F				Sta	rting m	ethod					DOL		
Ambient te	mperatu	ire			-20 to +	40		°C	Тур	be of co	upling					Direct		
Temperatu	re rise (b	y resist	tance)		80 [Class	в]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude ab	ove sea l	evel			1000			meter	Dir	ection o	of rotatio	on			В	i-directional		
Hazardous	area clas	sificatio	on		NA				Sta	ndard ı	otation				Cloc	kwise form D	E	
	Zone cl	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	cessorie	S							
	Temper	rature o	class		NA					Ac	cessory -	- 1				-		
Rotor type				Alu	uminum D	ie cast				Ac	cessory -	- 2				-		
Bearing typ	be			A	nti-frictio	n ball				Ac	cessory ·	- 3				-		
DE / NDE b	earing			63	22 C3 / 6	322 C3			Ter	minal k	ox posit	ion				TOP		
Lubrication	method				Regreasa	ble			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x M	63 x 1.5	

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

Auxiliary terminal box

 T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

Type of grease

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

CHEVRON SRI-2 or Equivalent

 $\ensuremath{^*}$ 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					

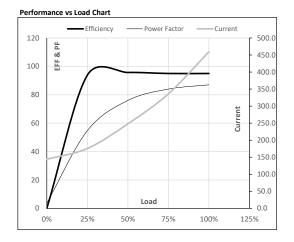
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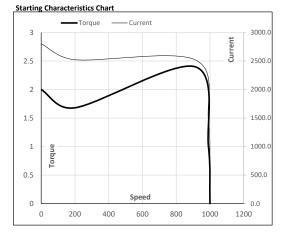
Model No. SCA2503A4121GAA001

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	380/660	Δ	50	250	335	459.6	991	245.58	2408.32	IE2	40	S1	1000	11.7080	1856

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	144.0	175.6	247.9	336.0	459.6	
Torque	Nm	0.0	597.8	1198.2	1801.6	2408.3	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	93.8	95.7	95.0	95.0	
Power Factor	%	3.7	54.7	76.0	84.0	87.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	200	912	991	1000						
Current	А	2803.4	2523.0	1447.5	459.6	144.0						
Torque	pu	2.0	1.7	2.4	1	0						



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

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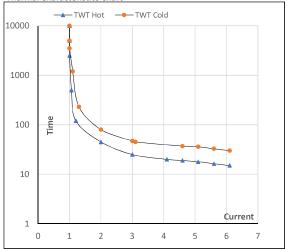
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/66	50 Δ	50	250	335	459.6	991	245.58	2408.32	IE2	40	S1	1000	11.7080	1856

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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