### **PRODUCT INFORMATION PACKET**

Model No: SCA0043A4181GAA001 Catalog No: SCA0043A4181GAA001 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 380/660 V, 1000 RPM, 132M Frame, TEFC



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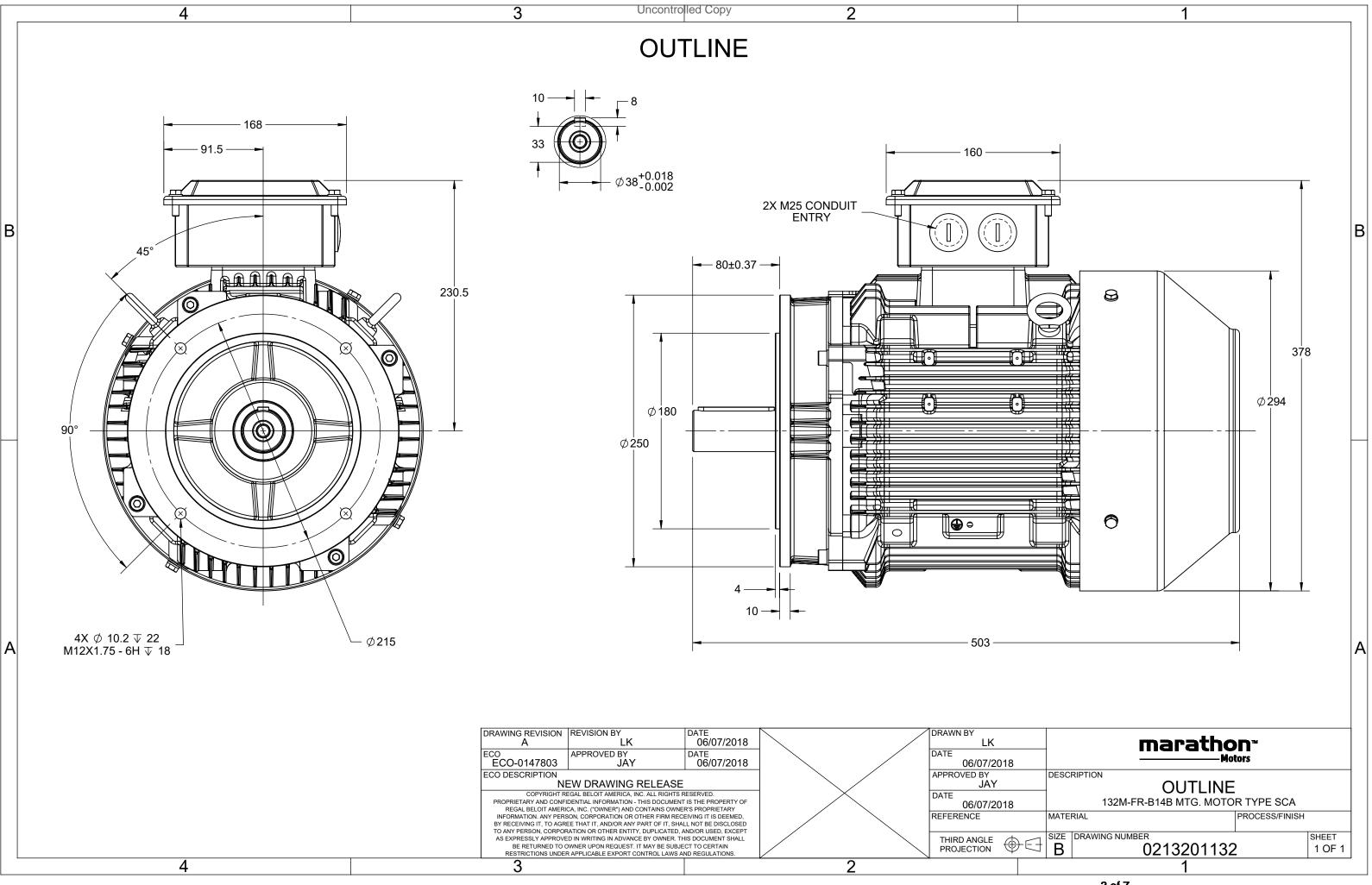
### Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	380/660 V
Current	9.1 A	Speed	953 rpm
Service Factor	1	Phase	3
Efficiency	84.6 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132M 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 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14B	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213201132

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U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	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	4	5.5	9.1	953	41.18	IE2	-	84.6	84.6	85.1	0.79	0.73	0.61	6	2.6	2.7
Motor typ					SCA				Dec	ree of	protecti	on				IP 55		
Enclosure					TEFC					unting		011				IM B14B		
Frame Ma					Cast Ire					ling me						IC 411		
Frame size					132N	1				•	ght - ap	orox				81		kg
Duty					S1						ht - app					84		kg
Voltage va	ariation	*			± 10%	6				tor iner						0.0256		kgm <sup>2</sup>
Frequency					± 5%				Loa	d inerti	а				Custo	omer to Provid	le	0
Combined	,				10%				Vib	Vibration level					1.6		mm/s	
Design					N				Noise level ( 1meter distance from mo			n motor	)	59		dB(A)		
Service fa	ctor				1.0				No. of starts hot/cold/Equally spread			ead	2/3/4					
Insulation	class				F				Sta	rting m	ethod					DOL		
Ambient t	empera	ture			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperat	ure rise	(by res	sistance	)	80 [ Class	s B ]		К	LR v	withsta	nd time	(hot/co	d)			15/30		S
Altitude a	bove se	a level			1000			meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazardou	s area c	lassifica	ation		NA				Star	ndard r	otation				Cloc	ckwise form D	E	
	Zone o	lassific	ation		NA				Pair	nt shad	e					RAL 5014		
	Gas gr	oup			NA				Acc	essorie	S							
	Tempe	erature	class		NA					Acc	cessory ·	- 1				-		
Rotor type	е			Alı	uminum E	Die cast				Acc	cessory -	- 2				-		
Bearing ty	/pe			A	nti-frictio	n ball				Acc	cessory ·	- 3				-		
DE / NDE	bearing				08-2Z / 6				Ter	minal b	ox posit	ion				ТОР		
Lubricatio	n meth	bd		G	ireased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 1	16mm²/2 x M2	25 x 1.5	
Type of gr	rease				NA				Aux	iliary te	erminal l	box			Avail	able on Reque	st	

 $I_{A}/I_{N}$  - Locked Rotor Current / Rated Current  $T_{A}/T_{N}$  - Locked Rotor Torque / Rated Torque

T<sub>K</sub>/T<sub>N</sub> - 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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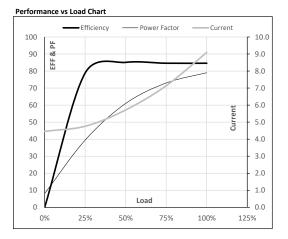
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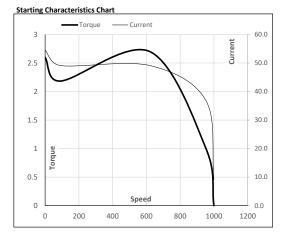
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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	4	5.5	9.1	953	4.20	41.18	IE2	40	S1	1000	0.0256	81

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Luau Fuillt		INL	1/4FL	1/ ZFL	3/4FL	FL	3/4FL
Current	А	4.5	4.8	5.7	7.1	9.1	
Torque	Nm	0.0	9.9	20.1	30.4	41.2	
Speed	r/min	1000	989	979	967	953	
Efficiency	%	0.0	78.9	85.1	84.6	84.6	
Power Factor	%	8.1	39.5	61.0	73.0	79.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	91	621	953	1000					
Current	А	54.6	49.1	36.8	9.1	4.5					
Torque	pu	2.6	2.2	2.7	1	0					



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

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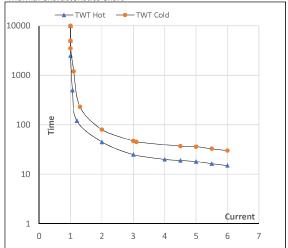
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[kW] [hp]							
[kW] [hp]	[A] [rpm]	[kgm] [Nm]	Class	[°C]	[m]	[kg-m <sup>2</sup> ]	[kg]
4 5.5	9.1 953	4.20 41.18	IE2	40 S1	1000	0.0256	81
<u> </u>							

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	20	18	16	15
TWT Cold	s	10000	80	47	45	36	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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