## **PRODUCT INFORMATION PACKET**

Model No: SCA7P51A4141GAA001 Catalog No: SCA7P51A4141GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380/660 V, 3000 RPM, 132S Frame, TEFC



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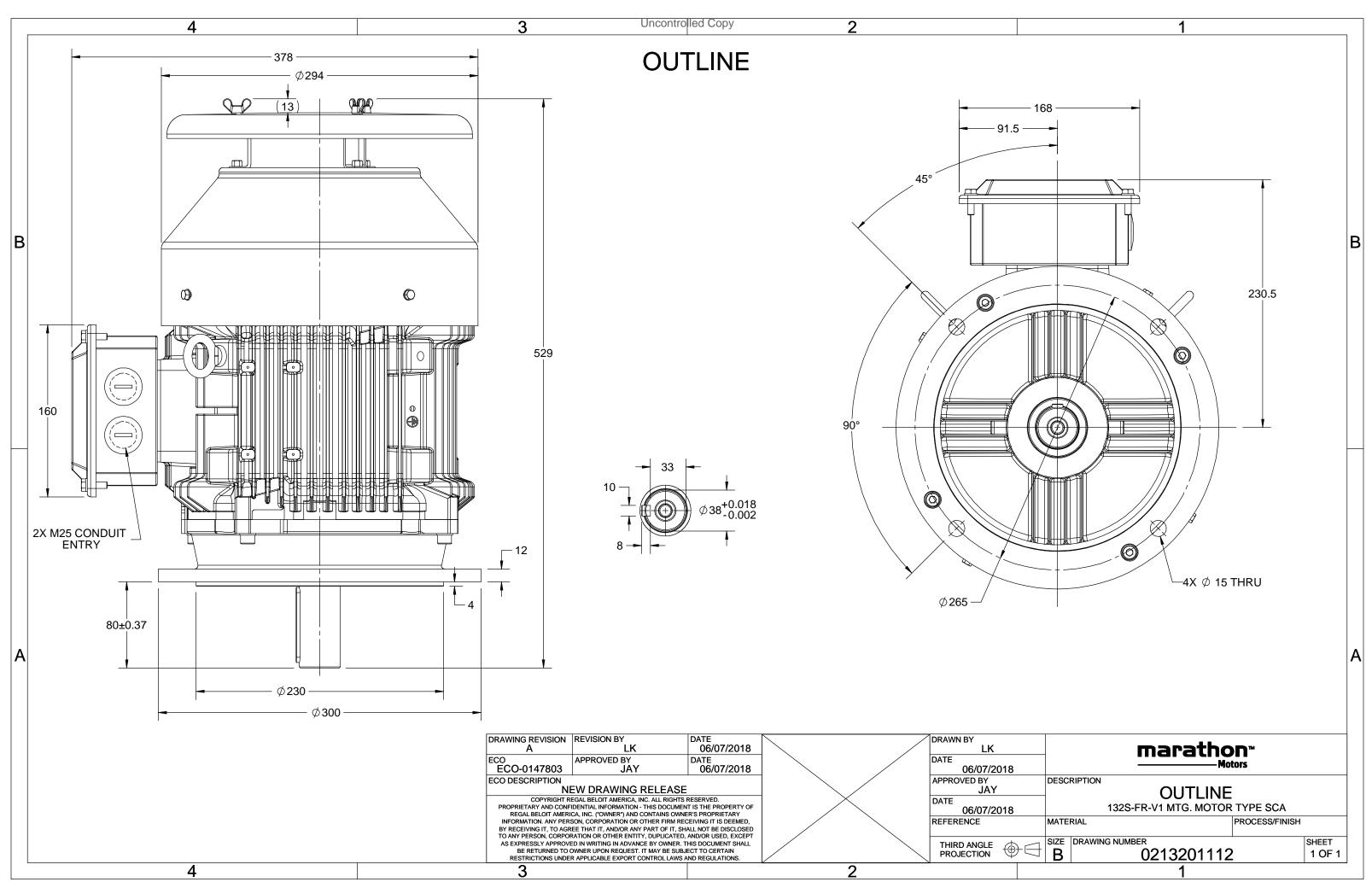
#### Nameplate Specifications

Output HP	10 Нр	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	13.8 A	Speed	2906 rpm
Service Factor	1	Phase	3
Efficiency	88.1 %	Power Factor	0.94
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132S 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	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	529 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213201112

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U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE	c.	% EFF a	t load	t	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	7.5	10	13.8	2906	24.5	IE2	-	88.1	88.1	88.8	0.94	0.92	0.86	7.8	2.5	3.1
Motor typ	)e				SCA				Deg	ree of	protecti	on				IP 55		
Enclosure					TEFC				-	unting	•	on			IM V1			
Frame Ma					Cast Iro					oling me					IC 411			
Frame size					1325					-	ght - ap	prox.			77			kg
Duty	-				S1						sht - app	•			80			kg
Voltage va	ariatior	۱ *			± 10%	6				tor ine						0.0155		kgm <sup>2</sup>
Frequency					± 5%				Loa	Load inertia					Cust	omer to Provi	de	0
Combined					10%				Vibration level						1.6		mm/s	
Design					Ν				Noise level ( 1meter distance from mo					n motoi	r)	68		dB(A)
Service fac	ctor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulation	class				F					rting m						DOL		
Ambient t	emper	ature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Temperat	ure rise	e (by re	esistance	e)	80 [ Class	s B ]		К	LR	withsta	nd time	(hot/co	ld)			10/6		S
Altitude al	bove se	ea leve			1000	)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazardous	s area d	classifi	cation		NA				Sta	ndard r	otation				Clo	ckwise form D	ΡE	
	Zone o	classifi	cation		NA				Pai	nt shad	e					RAL 5014		
	Gas gr	oup			NA				Acc	essorie	s							
	Temp	erature	e class		NA					Ace	cessory -	- 1				-		
Rotor type	e			Alı	uminum [	Die cast				Ace	cessory -	- 2				-		
Bearing ty	/pe			A	nti-frictio	on ball				Ace	cessory -	- 3				-		
DE / NDE I	bearing	g		630	08-2Z / e	5208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubricatio	n meth	nod		G	reased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1F	R x 3C x 2	16mm²/2 x M	25 x 1.5	
Type of gr	ease				NA				Aux	ciliary te	erminal	box			Avail	able on Requ	est	

 $\rm I_A/\rm I_N$  - 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	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



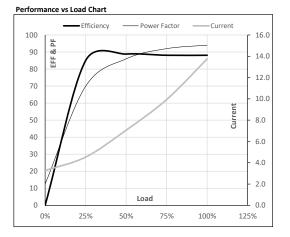
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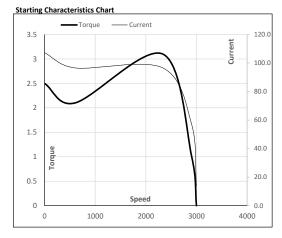
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	380/660	Δ	50	7.5	10	13.8	2906	2.50	24.50	IE2	40	S1	1000	0.0155	77

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.3	4.5	7.1	9.9	13.8	
Torque	Nm	0.0	6.0	12.0	18.2	24.5	
Speed	r/min	3000	2978	2956	2933	2906	
Efficiency	%	0.0	85.0	88.8	88.1	88.1	
Power Factor	%	12.5	69.9	86.0	92.0	94.0	



Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	600	2335	2906	3000							
Current	А	107.3	96.6	56.8	13.8	3.3							
Torque	pu	2.5	2.1	3.1	1	0							



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

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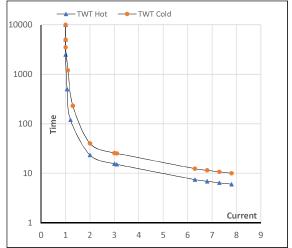
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			P	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 380	660 Δ	50	7.5	10	13.8	2906	2.50	24.50	IE2	40	S1	1000	0.0155	77

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	23	16	13	9	8	6
TWT Cold	s	10000	40	26	20	17	14	10
Current	pu	1	2	3	4	5	5.5	7.8

#### Thermal Characteristics Chart



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

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