PRODUCT INFORMATION PACKET

Model No: SCA7P52A4121GAA001 Catalog No: SCA7P52A4121GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380/660 V, 1500 RPM, 132M Frame, TEFC



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Motors



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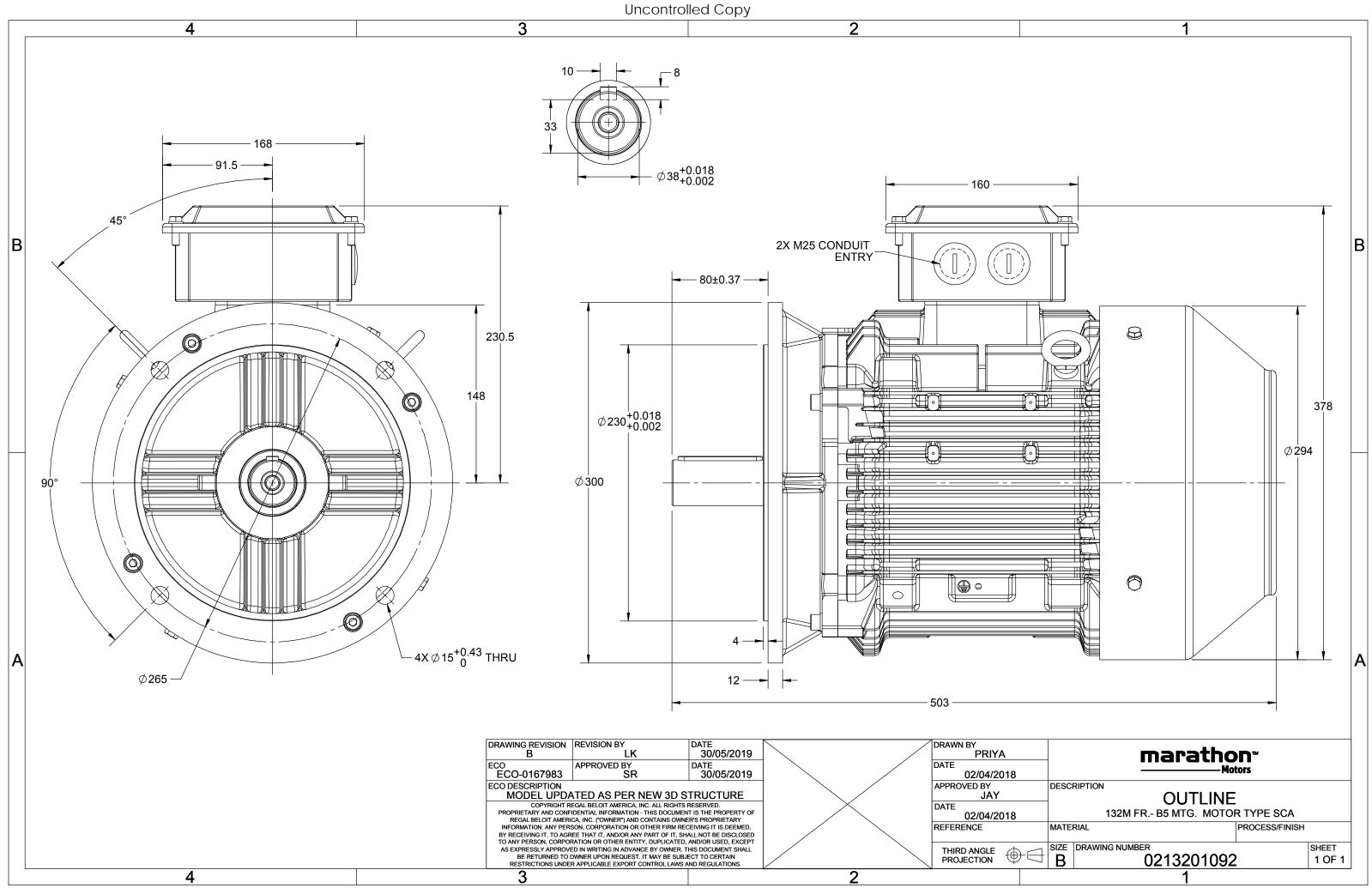
Nameplate Specifications

Output HP	10 Нр	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380/660 V
Current	15.3 A	Speed	1451 rpm
Service Factor	1	Phase	3
Efficiency	88.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
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
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	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	0213201092

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U	Δ/Υ	f	Р	Р	1	n	т	IE		% EFF a	t load	d	PF	at lo	bad	I _A /I _N	T_A/T_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	7.5	10	15.3	1451	49.08	IE2	-	88.7	88.7	, 88.9	0.84	0.79	0.66	8.3	3.4	3.5
					SCA				De							IP 55		
Motor type	2				TEFC					gree of		on						
Enclosure					Cast In					ounting						IM B5 IC 411		
Frame Mat	erial				132N					oling me								
Frame size					1521v S1	1				otor wei		•					kg	
Duty	• .• •				± 10%	,				oss weig		rox.				91 0.0270		kg
Voltage vai		ч.			± 10%					otor iner					Custo	omer to Provid		kgm ²
Frequency										Load inertia				Custo		e	,	
Combined	variation	*			10%					Vibration level Noise level (1meter distance from motor					1.6 61		mm/s	
Design					N						•				,			dB(A)
Service fac					1.0					. of star	,	old/Equ	ally spr	read	2/3/4			
Insulation of					F					rting m					DOL			
Ambient te					-20 to +			°C		be of co						Direct		
Temperatu	•	•	tance)		80 [Clas	•		К		withsta			old)			6/10		S
Altitude ab					1000)		meter		ection o		on			-	i-directional		
Hazardous					NA					ndard r					Cloc	kwise form DE		
	Zone cl		ition		NA					nt shad						RAL 5014		
	Gas gro	•			NA				Acc	cessorie								
	Temper	rature	class		NA						essory					-		
Rotor type					uminum [essory					-		
Bearing typ					nti-frictio						essory					-		
DE / NDE b	earing				08-2Z / 6				Ter	rminal b	ox posit	ion				ТОР		
Lubrication	method			Ģ	Greased for	or life			Ma	iximum	cable si	ze/conc	luit size	1R	x 3C x 1	L6mm²/2 x M2	5 x 1.5	
Type of gre	ase				NA				Aux	xiliary te	erminal	box			Availa	able on Reque	st	

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - 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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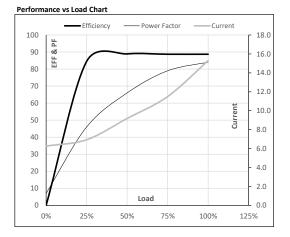
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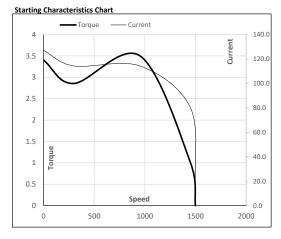
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380/660	Δ	50	7.5	10	15.3	1451	5.00	49.08	IE2	40	\$1	1000	0.0270	88

Motor Load Dat	ta						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.3	6.9	9.2	11.5	15.3	
Torque	Nm	0.0	12.0	24.1	36.5	49.1	
Speed	r/min	1500	1489	1477	1465	1451	
Efficiency	%	0.0	84.5	88.9	88.7	88.7	
Power Factor	%	7.0	46.0	66.0	79.0	84.0	



Motor Speed	Forque Data						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	953	1451	1500	
Current	А	126.9	114.3	80.0	15.3	6.3	
Torque	pu	3.4	2.9	3.5	1	0	



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

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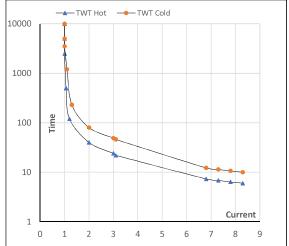
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				Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 380	/660 Δ	50	7.5	10	15.3	1451	5.00	49.08	IE2	40	S1	1000	0.0270	88

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	I ₅	LR
TWT Hot	s	10000	40	24	20	15	9	6
TWT Cold	s	10000	80	49	35	26	18	10
Current	pu	1	2	3	4	5	5.5	8.3

Thermal Characteristics Chart



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

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