PRODUCT INFORMATION PACKET

Model No: SCA5P52A1141GAA001 Catalog No: SCA5P52A1141GAA001 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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Motors



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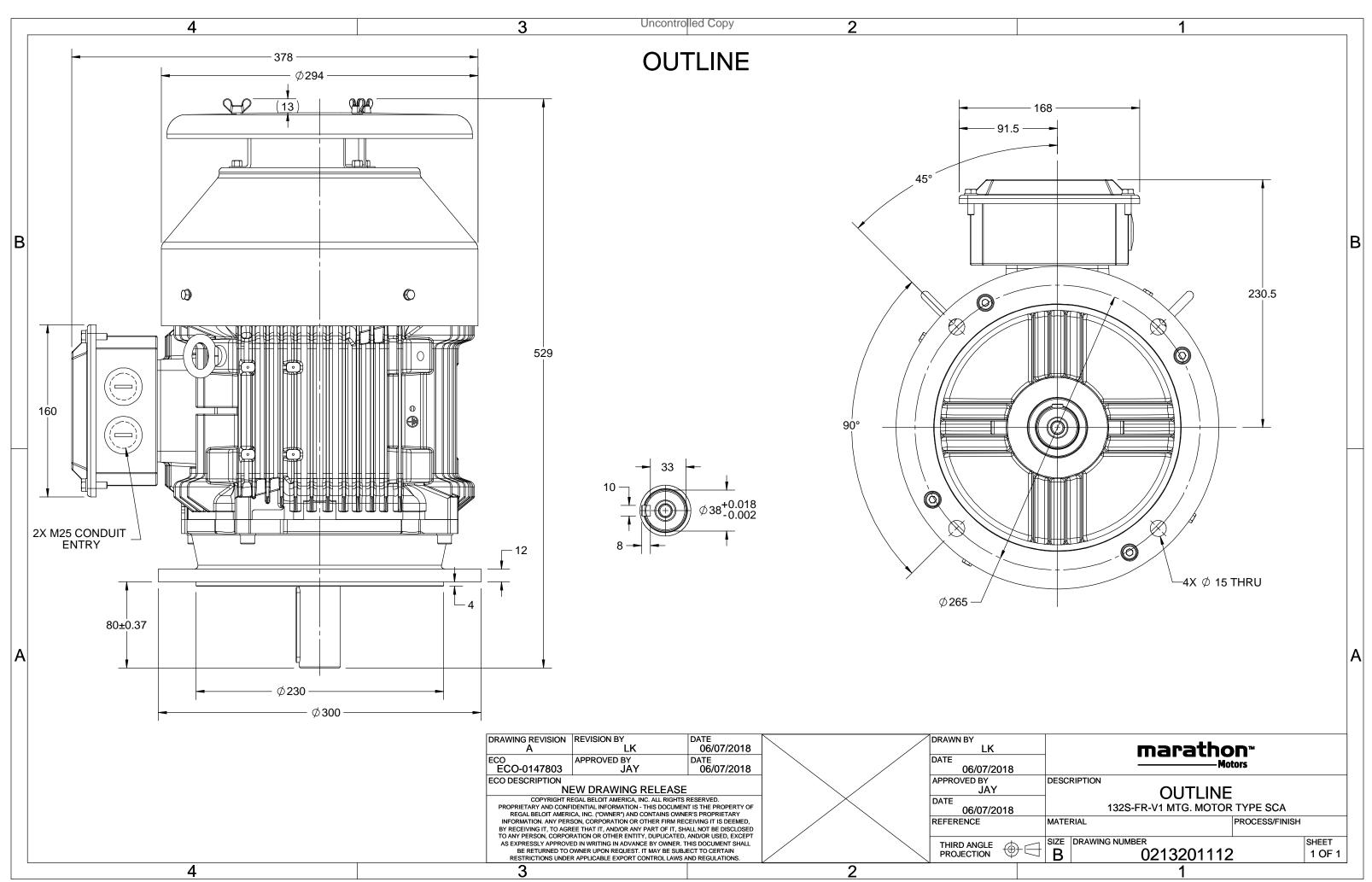
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	10.5 A	Speed	1444 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.86
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	4	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		
Outline Drawing	0213201112	Connection Drawing	8442000085

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Model No. SCA5P52A1141GAA001

U	$\Delta \: / \: Y$	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	1	PF	at lo	bad	I _A /I _N	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]
400	Δ	50	5.5	7.5	10.5	1444	37.00	IE2	-	87.7	87.7	89	0.86	0.82	0.73	7.1	2.7	3.0
Motor	tupo				SCA				Doc	troo of	protecti	00				IP 55		
Enclosi	<i>'</i> ·				TEFC					unting		011				IM V1		
	Material				Cast Ir					oling me						IC 411		
Frame					1325					•	ght - api	arov				79		kg
Duty	5120				S1						tht - app					82		kg
	e variatio	n *			± 10%	6				tor iner		107.				0.0228		kgm²
	ncy varia				± 5%					d inerti					Cust	omer to Provid	de	Kgill
	ned varia				10%					Vibration level						1.6		
Design					N					Noise level (1meter distance from motor)	61		mm/s dB(A)
Service	factor				1.0						ts hot/c				,	2/3/4		()
Insulati	on class				F					rting m			,			DOL		
Ambier	nt tempe	erature			-20 to +	40		°C		e of co						Direct		
	rature ri		esistanc	e)	80 [Clas	s B]		К			nd time	(hot/co	ld)			15/7		S
Altitude	e above :	sea lev	el		1000)		meter	Dire	ection o	of rotatio	on			B	Bi-directional		
Hazard	ous area	classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor t	уре			Alı	uminum [Die cast				Acc	cessory -	- 2				-		
Bearing	g type			А	nti-frictio	on ball				Acc	cessory -	- 3				-		
DE / N	DE bearir	ng		63	08-2Z / €	5208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion met	thod		G	Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	16mm²/2 x M2	25 x 1.5	
Type of	fgrease				NA				Aux	iliary te	erminal l	box			Avail	able on Reque	est	

 I_{A}/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

 $\ensuremath{^*}$ Voltage, Frequency and combine variation are as per IEC60034-1

Technical data	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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30				

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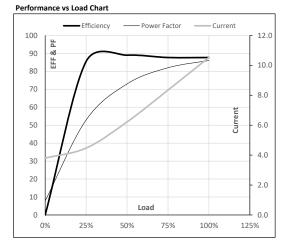


Model No. SCA5P52A1141GAA001

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	400	Δ	50	5.5	7.5	10.5	1444	3.77	37.00	IE2	40	S1	1000	0.0228	79

Motor Load Data

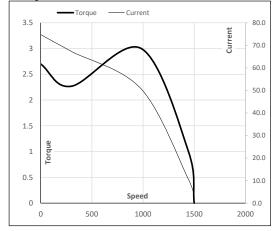
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	3.8	4.5	6.2	8.3	10.5	
Nm	0.0	9.0	18.1	27.4	37.0	
r/min	1500	1487	1475	1460	1444	
%	0.0	85.5	89.0	87.7	87.7	
%	7.8	52.9	73.0	82.0	86.0	
	Nm r/min %	A 3.8 Nm 0.0 r/min 1500 % 0.0	A 3.8 4.5 Nm 0.0 9.0 r/min 1500 1487 % 0.0 85.5	A 3.8 4.5 6.2 Nm 0.0 9.0 18.1 r/min 1500 1487 1475 % 0.0 85.5 89.0	A 3.8 4.5 6.2 8.3 Nm 0.0 9.0 18.1 27.4 r/min 1500 1487 1475 1460 % 0.0 85.5 89.0 87.7	A 3.8 4.5 6.2 8.3 10.5 Nm 0.0 9.0 18.1 27.4 37.0 r/min 1500 1487 1475 1460 1444 % 0.0 85.5 89.0 87.7 87.7



Motor Speed Torque Data

Motor Speed	a loique bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	983	1444	1500	
Current	А	74.8	67.3	50.6	10.5	3.8	
Torque	pu	2.7	2.3	3.0	1	0	

Starting Characteristics Chart



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

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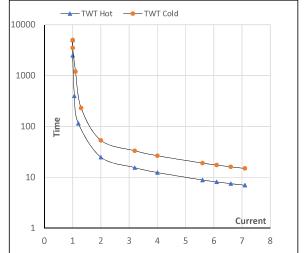
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.5	1444	3.77	37.00	IE2	40	S1	1000	0.0228	79

Motor Speed Torque Data

wotor spee	a rorq	ue Data						
Load		FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	S	10000	25	16	12	10	9	7
TWT Cold	s	10000	53	34	27	23	18	15
Current	pu	1	2	3	4	5	5.5	7.1

Thermal Characteristics Chart



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

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