PRODUCT INFORMATION PACKET

Model No: SCA1P54A3131GAAD01 Catalog No: SCA1P54A3131GAAD01 TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 112M Frame, TEFC



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Motors

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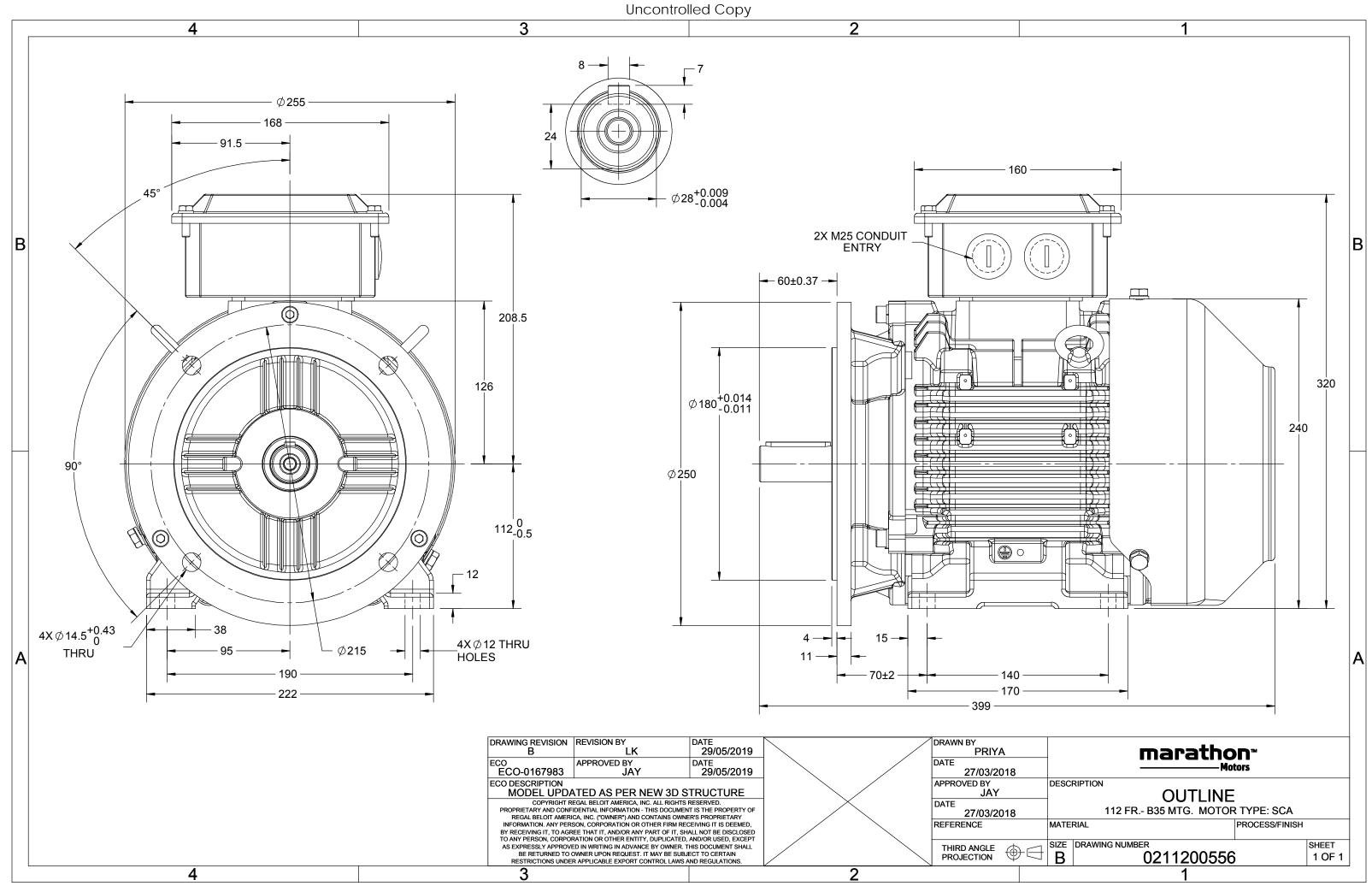
Nameplate Specifications

Output HP	2 Нр	Output KW	1.5 kW
Frequency	50 Hz	Voltage	415 V
Current	4.6 A	Speed	721 rpm
Service Factor	1	Phase	3
Efficiency	74.1 %	Power Factor	0.6183
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	112M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 50 °C
Thermal Protection	No Protection	Ambient Temperature	50 °C
Thermal Protection Drive End Bearing Size	No Protection 6206	Ambient Temperature Opp Drive End Bearing Size	50 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	ТОР		
Connection Drawing	8442000085	Outline Drawing	0211200556

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Model No. SCA1P54A3131GAAD01

U	Δ / Y	f	Р	Р	- I	n	Т	IE	9	% EFF a	t load	ł	PI	Fat_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	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Y	50	1.5	2.0	4.3	718	19.87	IE2	-	74.1	74.1	72.5	0.66	0.56	0.41	4.4	2.0	2.4
																<u> </u>		
Motor	type				SCA				Dee	ree of	protecti	on				IP 55		
Enclos					TEFC	:				unting						IM B35		
Frame	Material				Cast Ir	on				oling me						IC 411		
Frame	size				112N	1				•	ght - ap	orox.				54		kg
Duty					S1						ht - app					57		kg
, Voltage	e variatio	on *			± 10%	6				tor iner					0.0200			kgm ²
Freque	ncy varia	ation *			± 5%				Loa	Load inertia			Customer to Provide					
Combi	ned varia	ation *			10%				Vib	Vibration level				1.6		mm/s		
Design					Ν				Noi	Noise level (1meter distance from moto		n motor)	56		dB(A)		
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Star	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	·50		°C	Тур	e of co	upling		Direct					
Tempe	rature ri	se (by r	esistanc	e)	70 [Clas	s B]		К	LR v	withsta	nd time	(hot/co	/cold) 15/30			s		
Altitud	e above	sea lev	el		1000	1		meter	Dire	ection c	of rotatio	n Bi-directional		I				
Hazard	ous area	a classif	ication		NA			Standard rotation					Clockwise form DE					
	Zone cla	assifica	tion		NA				Paint shade				RAL 5014					
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA				Accessory - 1				-					
Rotor t	уре			Alı	uminum I	Die cast			Accessory - 2			-						
Bearing	g type			A	nti-frictio	on ball				Aco	cessory -	3				-		
DE / N	DE bearin	ng		63	806-2Z / 6	206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ition me	thod		G	Freased for	or life			Ma	ximum	cable siz	e/cond	uit size	1F	R x 3C x 3	16mm²/2 x I	M25 x 1.5	
Type of	f grease				NA				Aux	iliary te	erminal	хос				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current

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

 T_A/T_N - Locked Rotor 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	-	-	IS 12615 : 2018	-	-	-				

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