## **PRODUCT INFORMATION PACKET**

Model No: SCA0033AG171GAA001 Catalog No: SCA0033AG171GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC



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Product Information Packet: Model No: SCA0033AG171GAA001, Catalog No:SCA0033AG171GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 220/380 V, 1000 RPM, 132S Frame, TEFC

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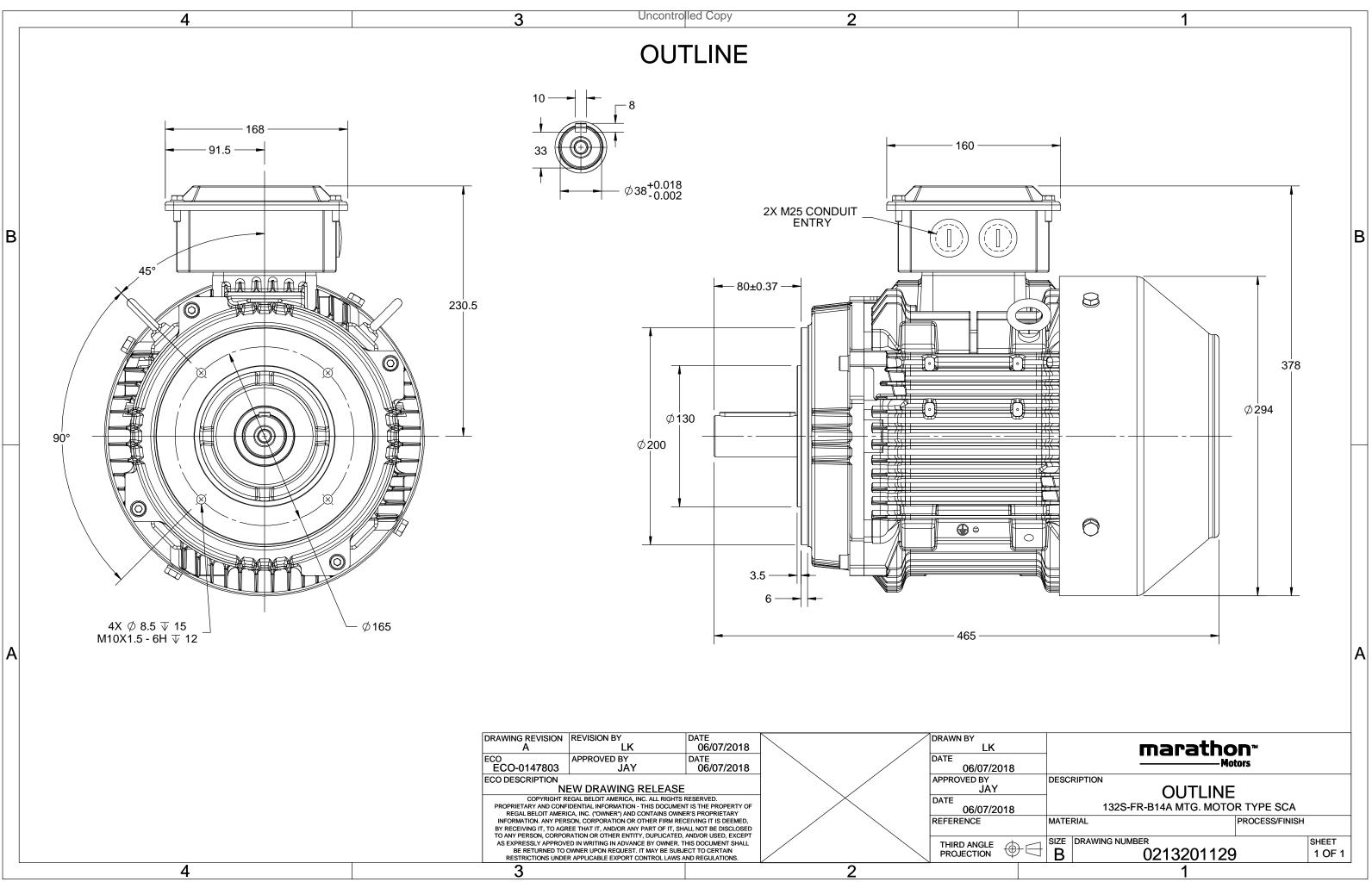
### Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	220/380 V
Current	7.0 A	Speed	957 rpm
Service Factor	1	Phase	3
Efficiency	83.3 %	Power Factor	0.78
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
UL CE	No Yes	CSA IP Code	No 55

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201129	Connection Drawing	8442000085

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3 of 7





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TOP

1R x 3C x 16mm²/2 x M25 x 1.5

Available on Request

Model No. SCA0033AG171GAA001

U	$\Delta / Y$	f	Р	Р	1	n	Т	IE	o	6 FFF at	: load	4	PF	at_lo	had	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>	
(V)	Conn	' [Hz]	' [kW]	' [hp]	[A]	[RPM]	[Nm]	Class	, 5/4FL	FL	3/4FL		FL		1/2FL	[pu]	[pu]	[pu]	
220/380	Y	50	3	4.0	7.0	957	29.83	IE2	-	83.3	83.3	83.6	0.78	0.71	0.59	[pu] 6.1	2.5	2.8	
220/300	•	50	5	4.0	7.0	557	25.05	162		05.5	05.5	05.0	0.70	0.71	0.55	0.1	2.5	2.0	
																•			
Motor type	е				SCA				Deg	ree of p	orotecti	on				IP 55			
Enclosure					TEFC			Mounting type								IM B14A			
Frame Mat	terial				Cast Iro	on			Cooling method						IC 411				
Frame size					1325				Motor weight - approx.						71				
Duty					S1				Gross weight - approx.							74		kg	
Voltage va	riation *	k			± 10%	6			Motor inertia					0.0211		kgm <sup>2</sup>			
Frequency	variatio	n *			± 5%				Load inertia				Custo	omer to Prov	ride				
Combined	variatio	n *			10%				Vib	ration le	evel					1.6			
Design					Ν				Noi	se level	(1mete	er distar	nce fron	n motor	·)	59		dB(A)	
Service fac	tor				1.0				No.	of star	s hot/c	old/Equ	ally spr	ead		2/3/4			
Insulation	class				F				Star	rting me	ethod					DOL			
Ambient te	emperat	ture			-20 to +	40		°C	Тур	e of cou	upling					Direct			
Temperatu	ure rise (	(by resi	stance)		80 [ Clas	s B ]		К	LR v	withstar	nd time	(hot/co	ld)			30/15		S	
Altitude ab	ove sea	level			1000	1		meter	Dire	ection o	f rotatio	on			В	i-directional			
Hazardous	area cla	assificat	tion		NA				Star	ndard ro	otation				Cloc	kwise form	DE		
	Zone c	lassifica	ation		NA				Pair	nt shade	5					RAL 5014			
	Gas gr	oup			NA				Acc	essories	5								
	Tempe	erature	class		NA					Acc	essory -	1				-			
				Δlu	minum [	Die cast				Accessory - 2						-			
Rotor type						Je casi				ALL	C3301 y -	2							

I<sub>A</sub>/I<sub>N</sub> - Locked Rotor Current / Rated Current T<sub>A</sub>/T<sub>N</sub> - Locked Rotor Torque / Rated Torque

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

Terminal box position

Auxiliary terminal box

Maximum cable size/conduit size

## NOTE

DE / NDE bearing

Type of grease

Lubrication method

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

6308-2Z / 6208-2Z

Greased for life

NA

\* 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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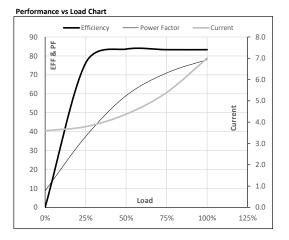
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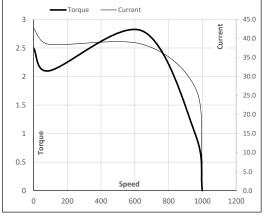
Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/380	Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	71

Motor Load Dat	а						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.6	3.8	4.4	5.4	7.0	
Torque	Nm	0.0	7.2	14.6	22.1	29.8	
Speed	r/min	1000	990	980	969	957	
Efficiency	%	0.0	76.2	83.6	83.3	83.3	
Power Factor	%	8.7	37.4	59.0	71.0	78.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	644	957	1000						
Current	А	42.8	38.5	27.2	7.0	3.6						
Torque	pu	2.5	2.1	2.8	1	0						





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

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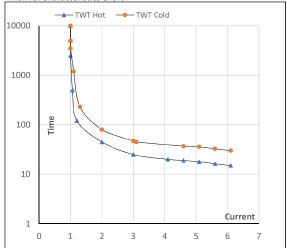
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	220/38	0 Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	71

#### Motor Speed Torque Data

motor opec.		ac bata						
Load		FL	$I_1$	$I_2$	$I_3$	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	45	25	21	18	17	15
TWT Cold	s	10000	80	47	46	36	33	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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