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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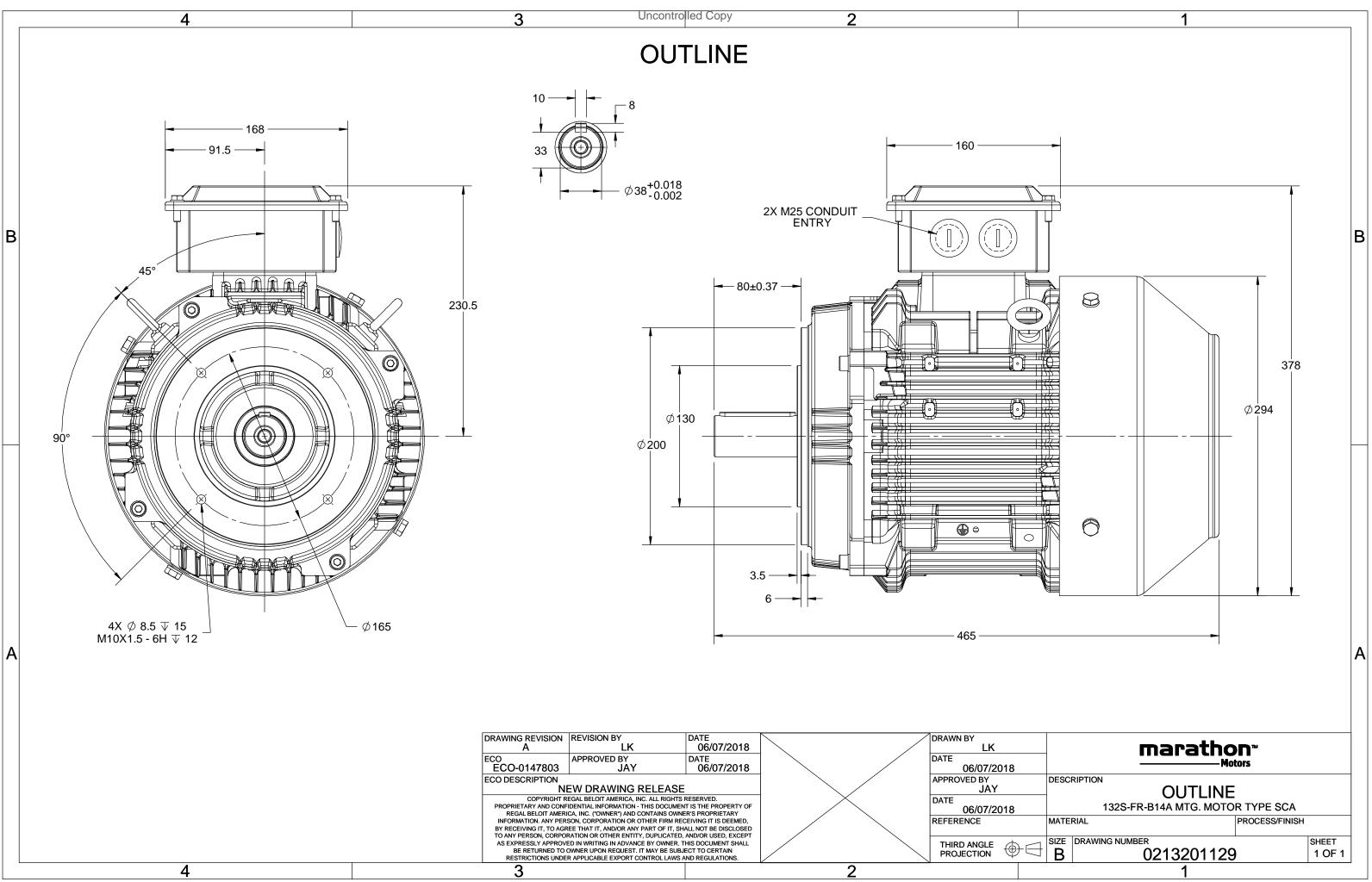
Nameplate Specifications

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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TOP

1R x 3C x 16mm²/2 x M25 x 1.5

Available on Request

Model No. SCA0033AG171GAA001

U	Δ / Y	f	Р	Р	1	n	Т	IE	o	6 FFF at	: load	4	PF	at_lo	had	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		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 ²			
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_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

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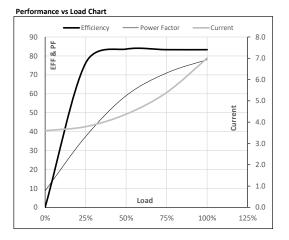
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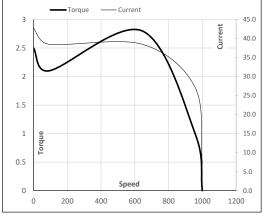
Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/380	Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	71

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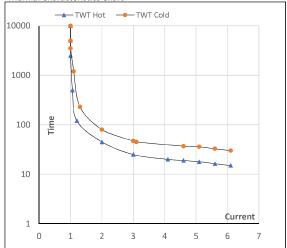
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	220/38	0 Y	50	3	4.0	7.0	957	3.04	29.83	IE2	40	S1	1000	0.0211	71

Motor Speed Torque Data

motor opec.		ac bata						
Load		FL	I_1	I_2	I_3	I_4	I ₅	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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