## **PRODUCT INFORMATION PACKET**

Model No: SCA0033A1131GAA001 Catalog No: SCA0033A1131GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132S Frame, TEFC



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marathon<sup>®</sup> Motors



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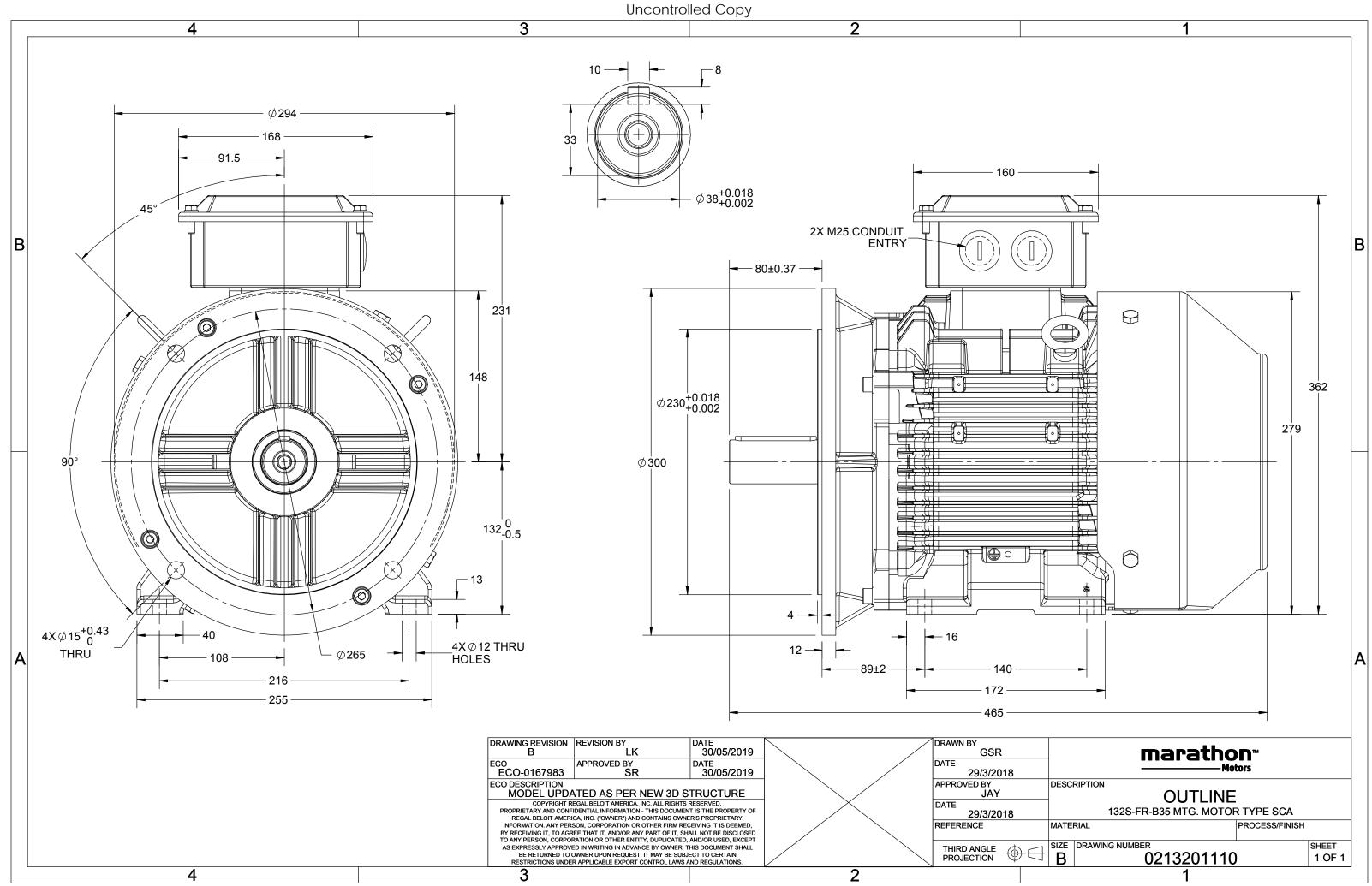
### Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	6.7 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
		Ambient Temperature	40 0
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
Drive End Bearing Size UL		·	
	6308	Opp Drive End Bearing Size	6208

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213201110	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

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U	$\Delta / Y$	f	Р	Р	I	n	т	IE		% EFF a	t load	ł	PF	at_lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
400	Y	50	3	4.0	6.7	957	29.83	IE2	-	83.3	83.3	83.6	0.78	0.71	0.59	6.1	2.5	2.8	
										-									
Motor	<i>'</i> ''				SCA					Degree of protection						IP 55			
Enclos	ire				TEFC					lounting type						IM B35			
Frame	Material				Cast Iro				Coc	oling me	ethod					IC 411			
Frame	size				1325				Mo	tor wei	ght - app	orox.			73				
Duty					S1				Gro	oss weig	ht - app	rox.		76				kg	
Voltage	e variatio	n *			± 10%	ó			Mo	tor iner	tia					0.0211		kgm <sup>2</sup>	
Freque	ncy varia	ation *			± 5%				Loa	ıd inerti	а				Cust	omer to Pro	vide		
Combi	ned varia	ation *			10%	Vibration level					evel					1.6		mm/s	
Design					Ν					ise level	( 1mete	er distar	nce fron	n motor	)	59		dB(A)	
Service	factor				1.0		No. o				No. of starts hot/cold/Equally spread					2/3/4			
Insulat	ion class				F				Sta	Starting method						DOL			
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct				
Tempe	rature ri	se (by r	esistanc	e)	80 [ Class	s B ]		К	LR	withsta	nd time	(hot/co	ld)	30/15					
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	n		Bi-directional					
Hazard	ous area	classif	ication		NA				Sta	Standard rotation						ckwise form	DE		
	Zone cla	assifica	tion		NA				Pai	Paint shade						RAL 5014			
	Gas gro	up			NA				Accessories										
	Temper	ature c	lass		NA					Acc	cessory -	1				PTC 150°C			
Rotor t	ype			Al	uminum [	Die cast				Acc	cessory -	2				-			
Bearing	z type			A	Anti-frictio	n ball				Aco	cessory -	3			-				
	) DE bearir	ng		63	08-2Z / 6	5208-2Z			Ter	minal b	, ox posit	ion			ТОР				
-	tion met	•		(	Greased fo	or life					cable siz		uit size	1F	1R x 3C x 16mm²/2 x M25 x 1.5				
	fgrease				NA						erminal	.,			Available on Request				
7,- 2 0	0.1110									, .									

 $I_{A}/I_{N}$  - Locked Rotor Current / Rated Current  $T_{A}/T_{N}$  - 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	IEC: 60034-30	-	-	AS/NZ 1359:5:2004	-	IEC: 60034-30

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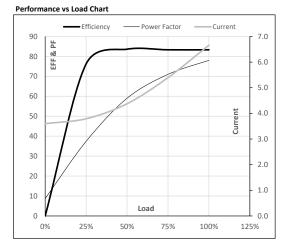


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Enclosure U	0 Δ/	Y f	Р	Р	I.	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
(V	V) Cor	n [Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 40	00 Y	50	3	4.0	6.7	957	3.04	29.83	IE2	40	S1	1000	0.0211	73

#### Motor Load Data

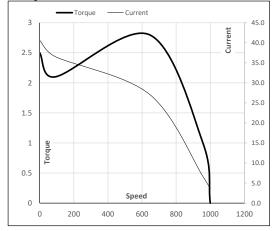
4.4 14.6	5.4 22.1	6.7 29.8	
14.6	22.1	20.0	
		29.0	
980	969	957	
83.6	83.3	83.3	
59.0	71.0	78.0	
	83.6	83.6 83.3	83.6 83.3 83.3



### Motor Speed Torque Data

motor oper	a longue bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	644	957	1000	
Current	А	40.6	36.6	27.2	6.7	3.6	
Torque	pu	2.5	2.1	2.8	1	0	

Starting Characteristics Chart



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

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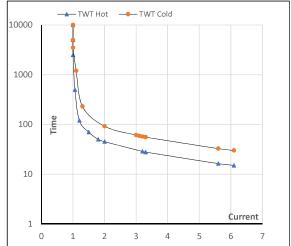
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Enclosure	U	$\Delta / Y$	f	Ρ	Ρ	Ι	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	3	4.0	6.7	957	3.04	29.83	IE2	40	S1	1000	0.0211	73

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	l <sub>5</sub>	LR
TWT Hot	s	10000	45	36	26	23	20	15
TWT Cold	s	10000	59	58	50	45	40	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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