## **PRODUCT INFORMATION PACKET**

Model No: QCA0033A1131GAA001 Catalog No: QCA0033A1131GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132S Frame, TEFC



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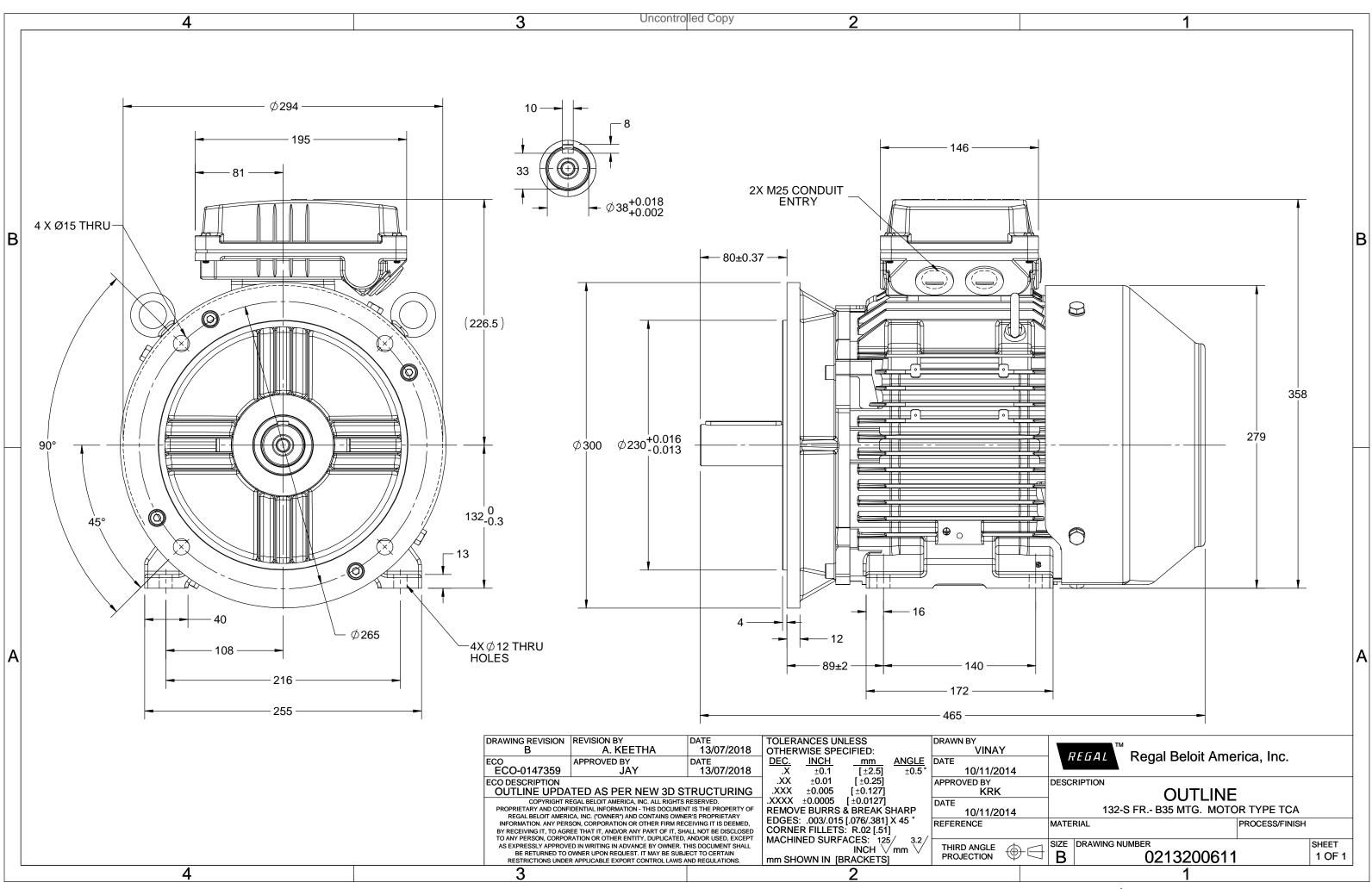
## Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	6.5 A	Speed	976 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
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
		· · ·	
Drive End Bearing Size	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	0213200611	Connection Drawing	8442000085

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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	6.5	976	29.22	IE4	-	88.6	88.6	87.3	0.75	0.67	0.53	6.1	2.1	2.7
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ure				TEFC				Мо	unting	type					IM B35		
Frame	Material				Cast Ire	on			Cod	oling me	ethod					IC 411		
Frame	size				1325				Мо	tor wei	ght - app	prox.				80		kg
Duty					S1				Gro	oss weig	ht - app	rox.				83		kg
Voltage	e variatio	on *			± 10%	Ď			Mo	tor iner	tia					0.0536		kgm <sup>2</sup>
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Prov	vide	
Combir	ned varia	tion *			10%				Vib	ration l	evel					1.6		mm/s
Design					N				Noi	se leve	(1mete	er distar	nce from	n motor	)	59		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulati	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by i	resistanc	e)	80 [ Clas	-		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			Bi-directional			
Hazard	ous area	l classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Aco	essory -	- 1				PTC 150°C		
Rotor t	уре				uminum [					Aco	essory -	- 2				-		
Bearing	g type				nti-frictic						essory -					-		
	DE bearii	•			08-2Z / 6						ox posit					TOP		
	tion me	thod		Ģ	ireased fo	or life					cable siz		uit size	1R	x 3C x 3	16mm²/2 x N	125 x 1.5	
Type of	f grease				NA				Aux	diliary te	erminal l	box				NA		
I <sub>A</sub> /I <sub>N</sub> - L	ocked R	otor Cu	irrent / F	Rated Cu	irrent				Т <sub>к</sub> /	T <sub>N</sub> - Bre	akdown	Torque	/ Rateo	d Torque	9			

 $T_{\rm A}/T_{\rm N}$  - 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 combined variation are as per IEC60034-1

Technical dat	ta are subject to chan	ge. There may be slight v	variations between calculated	values in this datashe	et and the motor nam	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	004 -	IEC 60034-30-1

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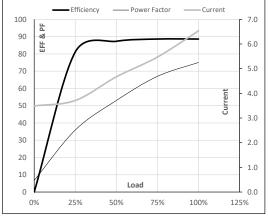
Model No. QCA0033A1131GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	1	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	400	Y	50	3	4.0	6.5	976	2.98	29.22	IE4	40	S1	1000	0.0536	80

#### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.5	3.7	4.7	5.5	6.5	
Torque	Nm	0.0	7.2	14.4	21.8	29.2	
Speed	r/min	1000	994	989	983	976	
Efficiency	%	0.0	81.1	87.3	88.6	88.6	
Power Factor	%	6.7	35.9	53.0	67.0	75.0	

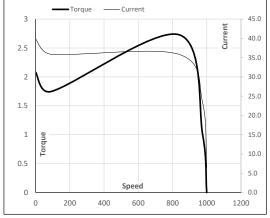
#### Performance vs Load Chart



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	837	976	1000	
Current	А	39.9	35.9	23.3	6.5	3.5	
Torque	pu	2.1	1.7	2.7	1	0	

Starting Characteristics Chart



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

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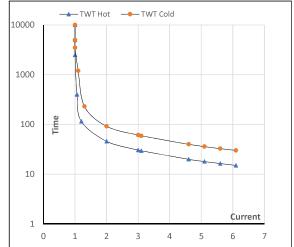
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Enclosure	U	$\Delta / Y$	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	3.0	4.0	6.5	976	2.98	29.22	IE4	40	S1	1000	0.0536	80

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	46	31	27	18	17	15
TWT Cold	s	10000	92	61	50	37	34	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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