PRODUCT INFORMATION PACKET

Model No: TCA5P52A1131GAC010 Catalog No: TCA5P52A1131GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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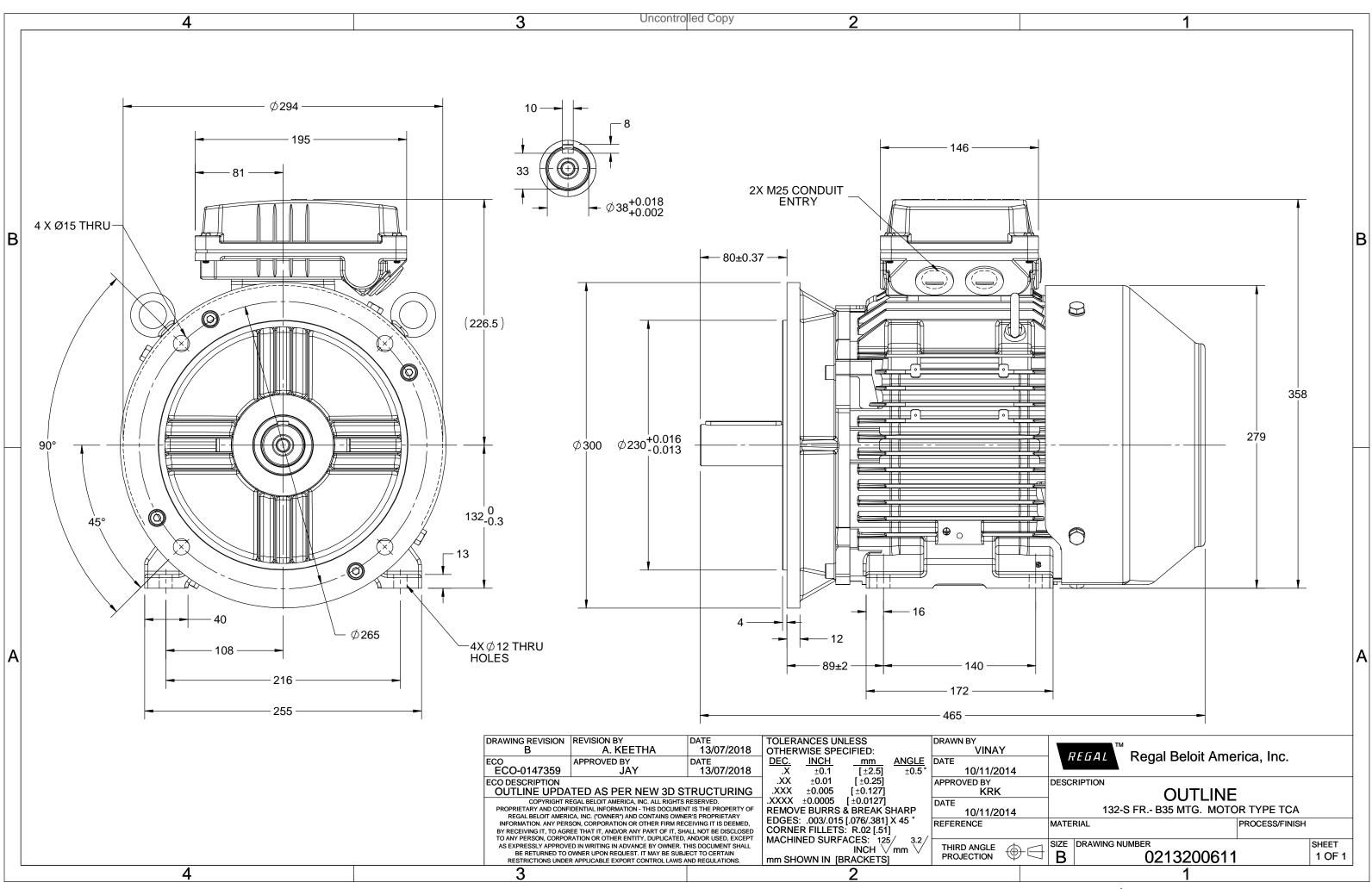
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	10.6 A	Speed	1468 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
			-
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

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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		
Connection Drawing	8442000085	Outline Drawing	0213200611

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	ł	PF	at lo	bad	I_A/I_N	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	Δ	50	5.5	7.5	10.5	1468	36.4	IE3	-	89.6	89.6	89.7	0.84	0.79	0.67	6.7	2.3	2.7
Motor	huno		Į		TCA			1	Do	groo of	protecti	on.	<u>.</u>			IP 55		
Enclosu	<i>'</i> ·				TEFC					ounting		011				IM B35		
	Materia	I			Cast Irc					oling me						IC 411		
Frame		1			1325					•	ght - ap	aroy				86		kg
Duty	5120				1525 S1						ght - app					89		∿s kg
	e variatio	n *			± 10%	Ś				otor ine		107.				0.0446		kgm ²
	ncy varia				± 5%					ad inerti					Cust	omer to Prov	/ide	KBIII
•	ned varia				10%					oration I						1.6		mm/s
Design					N							er distar	nce fror	n motor	-)	61		dB(A)
Service	factor				1.0						ts hot/c				,	2/3/4		()
Insulati	on class				F					irting m	-		,			DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
			resistanc	e)	80 [Class	5 B]		K			nd time	(hot/co	ld)			10/20		s
Altitude	e above	sea lev	el	,	1000			meter	Dir	ection o	of rotation	on .	,		В	Bi-directional		
Hazard	ous area	a classif	fication		NA				Sta	indard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Ace	cessorie	s							
	Temper	rature o	class		NA					Ace	cessory -	1				PTC 150°C		
Rotor ty	ype			Alı	uminum D)ie cast				Ace	cessory	2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	3				-		
DE / NC	DE beari	ng		630	08-2Z / 6	5208-2Z			Те	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	16mm²/2 x N	/125 x 1.5	
Type of	grease				NA				Au	xiliary te	erminal	box				NA		

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

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

 $\rm T_A/\rm T_N$ - 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. Ffficiency Aus/Nz Brazil India China Furone

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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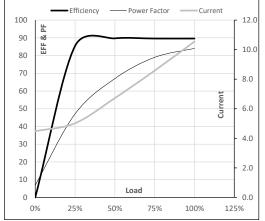


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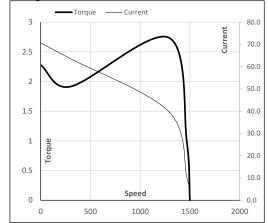
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	86

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	5.0	6.7	8.6	10.5	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	

Performance vs Load Chart



Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

70.7

2.3

P-Up

300

63.6

1.9

BD

1287

39.9

2.7

Rated

1468

10.5

1

NL

1500

4.5

0

Load Point

Speed

Current

Torque

REGAL





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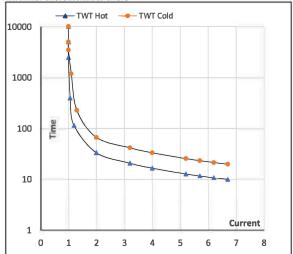
Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	83

LR

Motor Speed Torque Data Load FL I1 I2 I3 I4 I5 TWT Hot s 10000 34 24 17 14 13

Current	pu	1	2	3	4	5	5.5	6.7
TWT Cold	S	10000	67	45	34	28	24	20
TWT Hot	S	10000	34	24	17	14	13	10

Thermal Characteristics Chart



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

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