PRODUCT INFORMATION PACKET

Model No: TCA1P11A1131GAC010 Catalog No: TCA1P11A1131GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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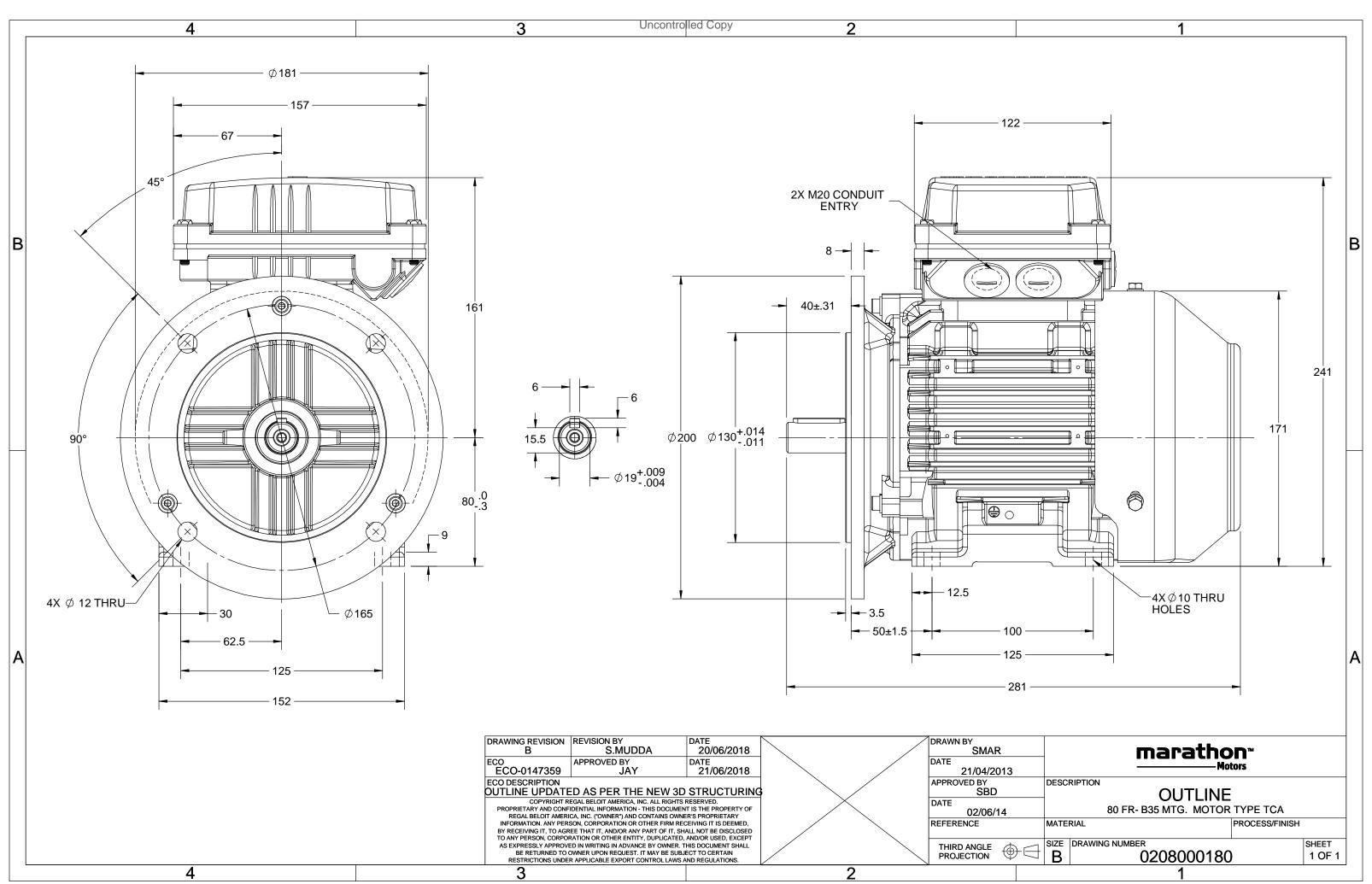
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.3 A	Speed	2878 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	80M 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 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0208000180	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	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	Y	50	1.1	1.5	2.3	2878	3.71	IE3	-	82.7	82.7	79.3	0.84	0.77	0.64	6.8	3.2	3.3
Motor	/ .				TCA						protecti	on				IP 55		
Enclosu	ure				TEFC					ounting						IM B35		
Frame	Materia				Cast Iro	on			Coo	oling me	ethod					IC 411		
Frame	size				80M				Mo	otor wei	ght - ap	prox.				21		kg
Duty					S1				Gro	Gross weight - approx.						22		kg
Voltage	e variatio	on *			± 10%				Mc	Motor inertia					0.0016			kgm ²
Freque	ncy varia	ation *			± 5%				Loa	Load inertia				Custo	omer to Prov	ide		
Combir	ned varia	ation *			10%				Vib	Vibration level						1.6		mm/s
Design					N				No	loise level (1meter distance from motor)			-)					
Service	factor				1.0				No	No. of starts hot/cold/Equally spread				2/3/4				
Insulati	ion class				F				Sta	Starting method					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	e)	80 [Class	s B]		K	LR	withsta	nd time	(hot/co	ld) 7/15				S	
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	class		NA					Aco	cessory -	1				PTC 150°C		
Rotor t	уре			Alu	Aluminum Die cast				Accessory - 2					-				
Bearing	g type			A	nti-frictio	n ball				Aco	cessory -	3				-		
DE / NE	DE beari	ng		620)4-2Z / 6	5204-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x N	120 x 1.5	
Type of	f grease				NA				Aux	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 Global IEC India China Furone

Efficiency	Europe	China	maia	Ausinz	Diazii	GIODAI IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

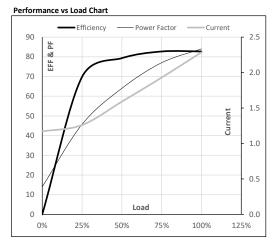
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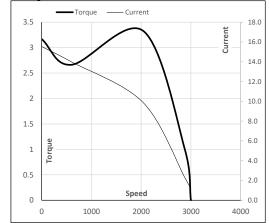
Model No. TCA1P11A1131GAC010

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	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	21

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.2	1.3	1.6	1.9	2.3	
Torque	Nm	0.0	0.9	1.8	2.8	3.7	
Speed	r/min	3000	2970	2943	2912	2878	
Efficiency	%	0.0	69.8	79.3	82.7	82.7	
Power Factor	%	14.0	45.7	64.0	77.0	84.0	



Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

15.5

3.2

P-Up

600

14.0

2.7

BD

2040

9.9

3.3

Rated

2878

2.3

1

NL

3000

1.2

0

Load Point

Speed

Current

Torque

REGAL





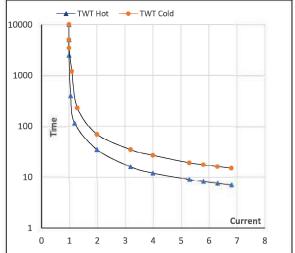
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	21

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	20	12	10	9	7
TWT Cold	s	10000	70	40	27	23	19	15
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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