PRODUCT INFORMATION PACKET

Model No: TCA18P3A1131GAC010 Catalog No: TCA18P3A1131GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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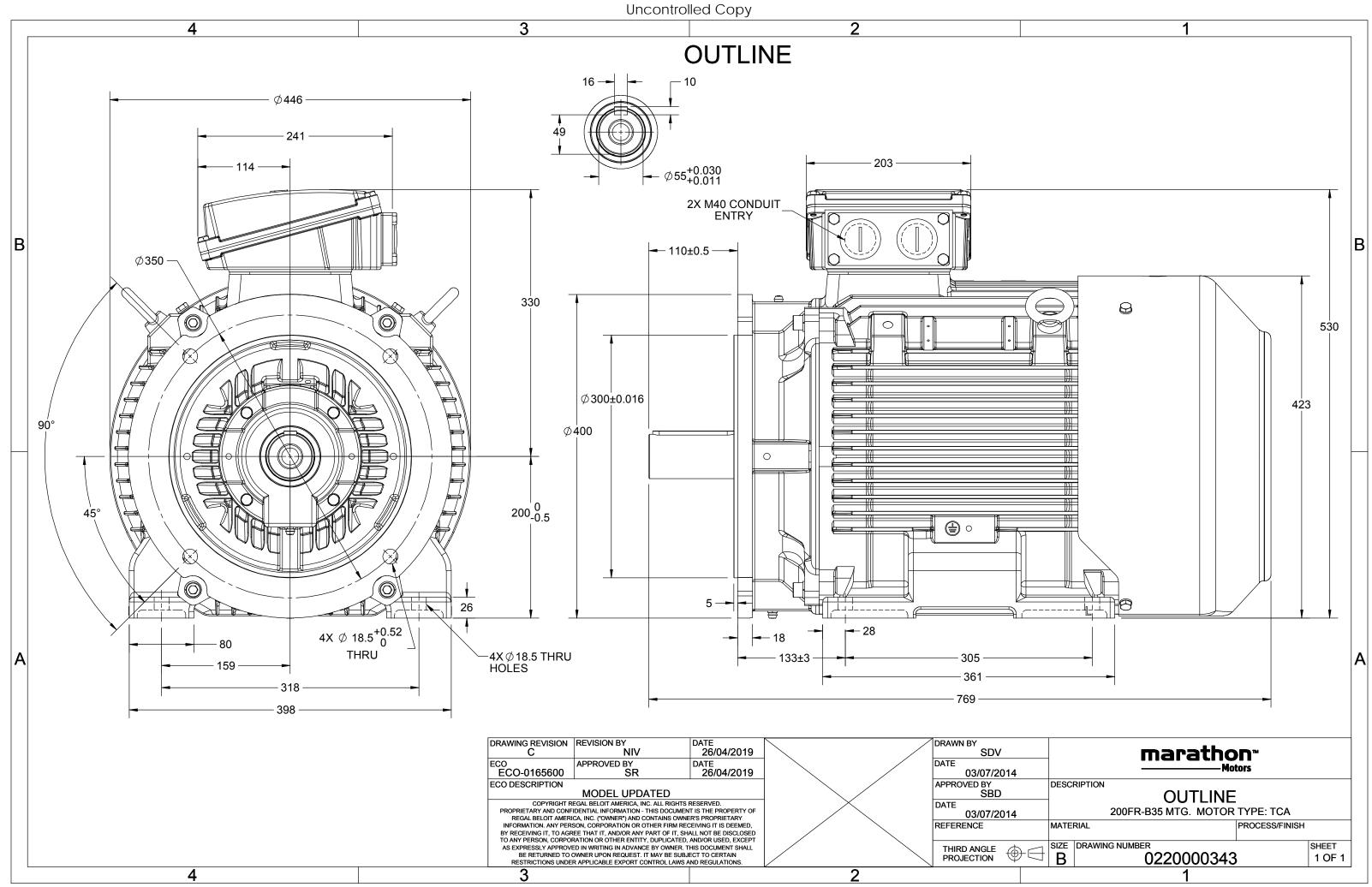
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	36.4 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	Νο	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000343	Connection Drawing	8442000085

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Model No. TCA18P3A1131GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PI	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	18.5	25	36.4	984	181.04	IE3	-	91.7	91.7	91.6	0.8	0.74	0.62	5.8	2.0	2.4
Motor	type				TCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC					ounting						IM B35		
Frame	Materia	I			Cast Irc				Cod	oling me	ethod					IC 411		
Frame	size				200L				Mo	otor wei	ght - ap	prox.				266		kg
Duty					S1				Gro	oss weig	ght - app	rox.				296		kg
Voltage	e variatio	on *			± 10%	5			Мо	tor ine	tia					0.5179		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	id inerti	а				Cust	omer to Prov	ride	
Combir	ned varia	ation *			10%				Vib	ration I	evel					2.2		mm/s
Design					Ν				Noi	ise leve	(1met	er distai	nce froi	n motor	.)	62		dB(A)
Service	factor				1.0				No.	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature	1		-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by i	resistance	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotation	on			В	i-directional		
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Clo	ckwise form I	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	уре			Alu	ıminum D)ie cast				Ace	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	3				-		
DE / NE	DE beari	ng		631	L2 C3/6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x N	140 x 1.5	
Type of	grease		(HEVRO	N SRI-2 o	r Equiva	ent		Aux	kiliary 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. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_

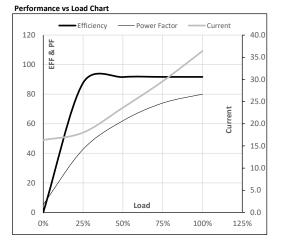
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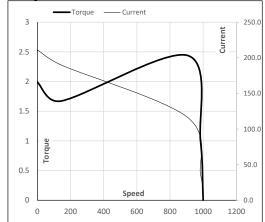
Model No. TCA18P3A1131GAC010

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	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	16.3	18.0	23.6	29.6	36.4	
Torque	Nm	0.0	44.7	89.7	135.2	181.0	
Speed	r/min	1000	996	992	988	984	
Efficiency	%	0.0	87.6	91.6	91.7	91.7	
Power Factor	%	5.3	42.7	62.0	74.0	80.0	



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

2.0

211.1

P-Up

143

190.0

1.7

BD

905

116.5

2.4

Rated

984

36.4

1

NL

1000

16.3

0

Load Point

Speed

Current

Torque

REGAL





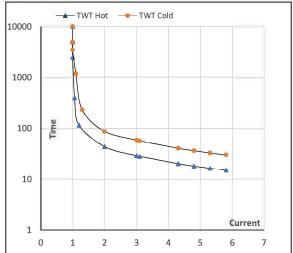
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	44	29	22	17	16	15
TWT Cold	S	10000	87	58	43	38	31	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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