PRODUCT INFORMATION PACKET

Model No: TCA0154A1131GAC010 Catalog No: TCA0154A1131GAC010 TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 200L Frame, TEFC



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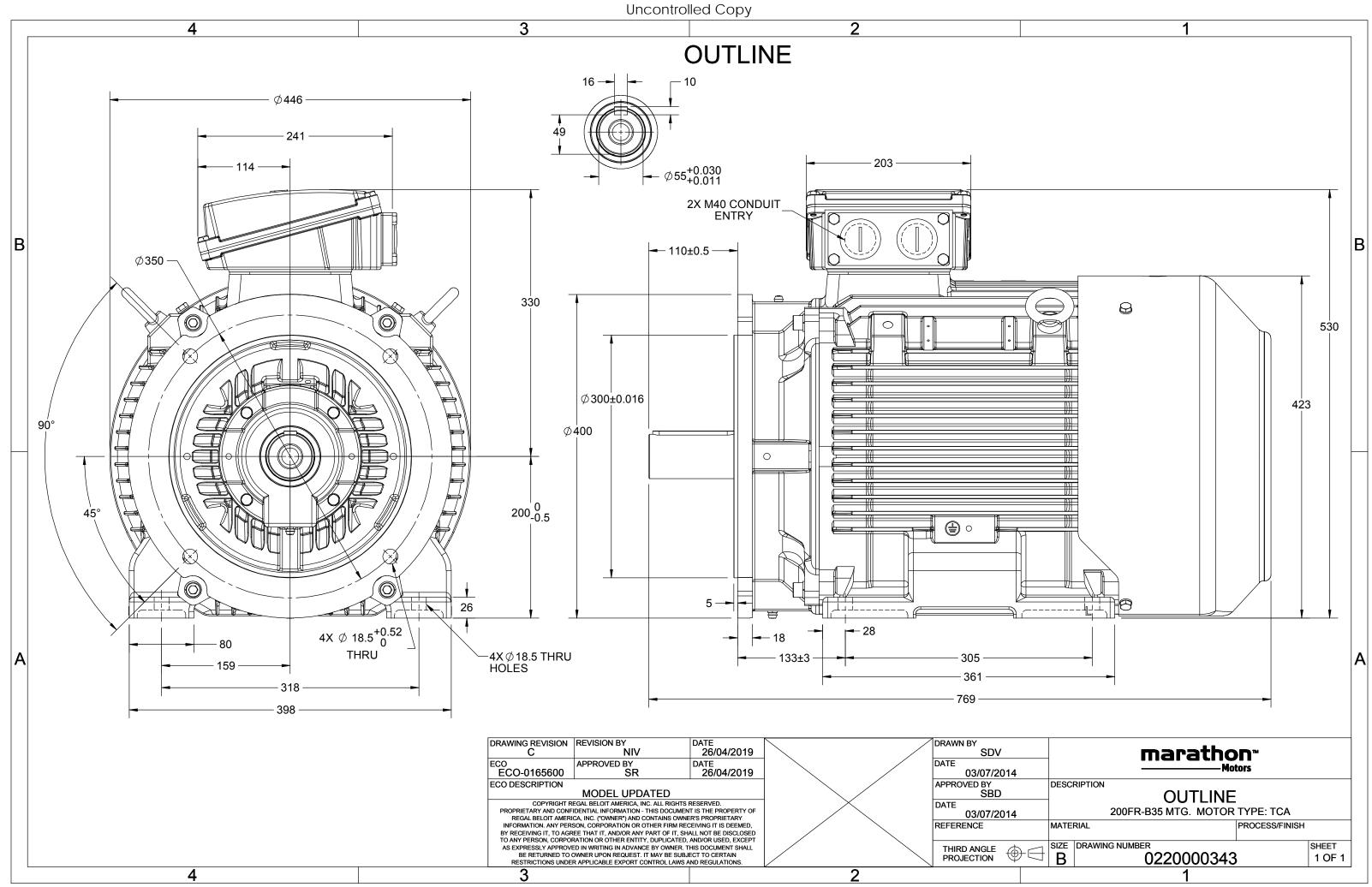
Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	50 Hz	Voltage	400 V
Current	34.0 A	Speed	739 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.71
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	No	CSA	Νο
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
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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TerraMAX[®]

Model No. TCA0154A1131GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	1	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$	
(∨)	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	15	20	34.0	739	193.01	IE3	-	89.6	89.6	89	0.71	0.63	0.49	5.5	2.0	2.6	
Matart					ТСА				Da	area of	arataati					IP 55			
Motor to Enclosu					TEFC						protectio	חכ				IM B35			
					Cast Irc					ounting									
Frame N Frame s		I			200L					oling me					IC 411 322 352 0.7327 Customer to Provide				
	ize				200L S1						ght - app							kg	
Duty		*								oss weig tor iner	ht - app	rox.				kg			
U	bltage variation * ± 10% equency variation * ± 5%												kgm ²						
					± 5%					id inerti					Cusi	2.2			
Combin	ed varia	ation *			10% N					ration l					1	61		mm/s	
Design	c .				1.0						•			n motor)	2/3/4		dB(A)	
Service					1.0 F						ts hot/co	old/Equ	ally spr	ead		2/3/4 DOL			
Insulatio					-20 to +	40				rting m						Direct			
Ambien								°C		be of co									
		• •	resistanc	e)	80 [Class	-		К			nd time	• •	ld)		_	15/30		S	
Altitude			•••		1000			meter			of rotatio	on				i-directional			
Hazardo					NA					ndard r					Cloc	kwise form	DE		
	Zone cla		tion		NA					nt shad						RAL 5014			
	Gas gro	•			NA				Acc	cessorie									
	Temper	ature o	class		NA						cessory -					PTC 150°C			
Rotor ty					ıminum d						cessory -					-			
Bearing					nti-frictio						essory -					-			
DE / ND	E bearii	ng		631	L2 C3/6						ox posit					TOP			
Lubricat	ion me	thod			Regrease				Ma	iximum	cable siz	e/cond	uit size	1R	x 3C x 5	50mm²/2 x N	√40 x 1.5		
Type of	grease		(CHEVRC	N SRI-2 o	r Equiva	lent		Au	xiliary te	erminal l	хос				NA			

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $\rm T_A/T_N$ - 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.

 Efficiency
 Europe
 China
 India
 Aus/Nz
 Brazil
 Global IEC

 Standards
 GB 18613-2012 Grade 2
 IEC: 60034-30

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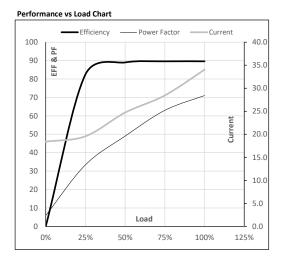


Model No. TCA0154A1131GAC010

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	15	20	34.0	739	19.68	193.01	IE3	40	S1	1000	0.7327	322

Motor Load Data

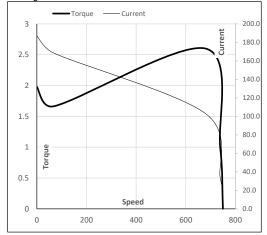
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	18.4	19.6	24.7	28.4	34.0	
Torque	Nm	0.0	47.7	95.8	144.2	193.0	
Speed	r/min	750	747	745	742	739	
Efficiency	%	0.0	82.5	89.0	89.6	89.6	
Power Factor	%	5.9	33.4	49.0	63.0	71.0	



Motor Speed Torque Data

		-				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	680	739	750
Current	А	187.2	168.5	103.1	34.0	18.4
Torque	pu	2.0	1.7	2.6	1	0

Starting Characteristics Chart



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

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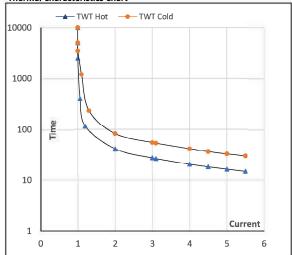
Model No. TCA0154A1131GAC010

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	15	20.0	34.0	739	19.68	193.01	IE3	40	S1	1000	0.7327	322

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	41	28	21	18	17	15
TWT Cold	s	10000	83	55	41	38	33	30
Current	pu	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



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

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