PRODUCT INFORMATION PACKET

Model No: TCA2001A1131GAC010 Catalog No: TCA2001A1131GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC



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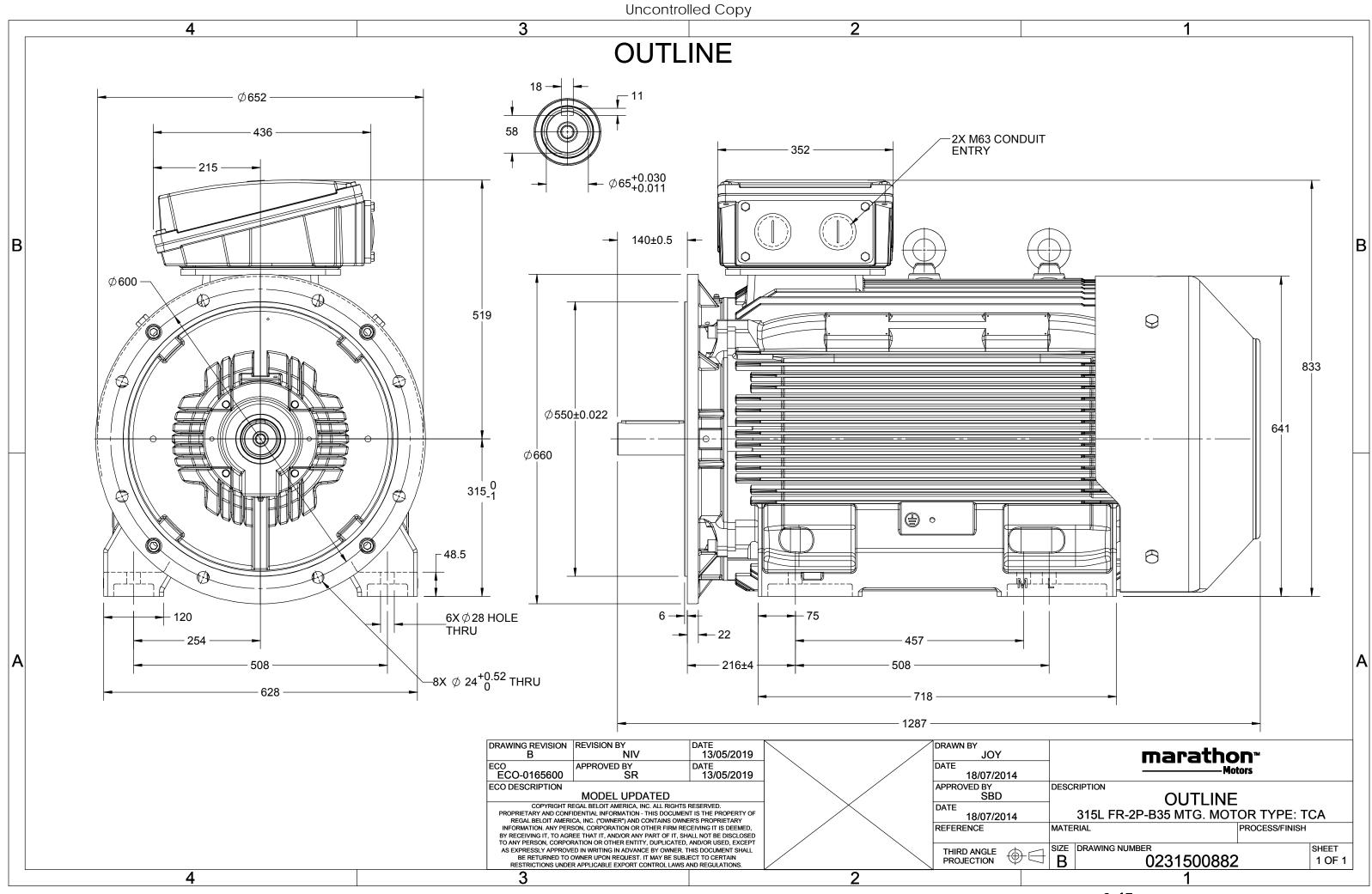
Nameplate Specifications

Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400 V
Current	338.6 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1287 mm	Frame Length	840 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500882	Connection Drawing	8442000085

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	I	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	Δ	50	200	270	338.6	2984	644.39	IE3	-	95.8	95.8	94.6	0.89	0.87	0.8	7.3	2.3	3.6
Motori					TCA				De	area of	arataati	~ ~				IP 55		
Motor 1 Enclosu	<i>/</i> ·				TEFC					0	protecti	on				IM B35		
		1			Cast Irc	n				ounting						IC 411		
	Materia	I			315L	11				oling me						1254		l.e.
Frames	size				515L S1						ght - ap					1294		kg
Duty		*			51 ± 10%						sht - app	rox.						kg
	e variatio									otor iner					6	3.0911	• • •	kgm ²
•	equency variation * ± 5%						ad inerti					Custo	Customer to Provide					
	ned varia	ation *			10%					oration l						2.8		mm/s
Design					N						•			n motor	-)	83		dB(A)
Service	factor				1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F					irting m						DOL		
Ambier	nt tempe	erature			-20 to +			°C		be of co	upling					Direct		
Temper	rature ri	se (by ı	resistance	e)	80 [Class	B]		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	li-directiona	al	
Hazard	ous area	a classif	ication		NA				Sta	indard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	Paint shade					RAL 5014			
	Gas gro	up			NA				Ace	cessorie	s							
	Temper	ature o	class		NA					Aco	essory -	- 1				PTC 150°C		
Rotor t	otor type Aluminum Die cast						Accessory - 2						-					
Bearing	g type			A	nti-frictio	n ball				Aco	cessory -	- 3				-		
DE / ND	DE beari	ng		63	16 C3/63	816 C3			Те	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regreasa	ble			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 2	40mm²/2 x	M63 x 1.5	
Type of	f grease		C	HEVRO	ON SRI-2 o	r Equiva	ent		Au	xiliary te	erminal	box			NA			

 I_A/I_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.

 Efficiency
 Europe
 China
 India
 Aus/Nz
 Brazil
 Global IEC

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

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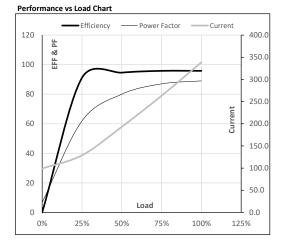
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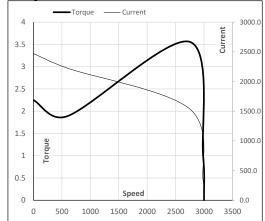
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1254

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	98.9	128.9	193.1	263.2	338.6	
Torque	Nm	0.0	160.4	321.3	482.6	644.4	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	91.1	94.6	95.8	95.8	
Power Factor	%	6.8	61.9	80.0	87.0	89.0	



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

2.3

P-Up

600

2471.6 2224.4 1541.9

1.9

BD

2745

3.6

Rated

2984

338.6

1

NL

3000

98.9

0

Load Point

Speed

Current

Torque

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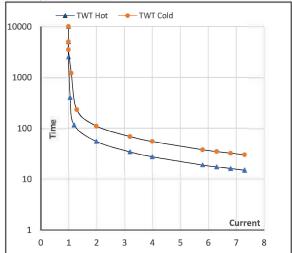
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			P	Р		n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	/) Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	Δ 00	50	200	270.0	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1254

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	S	10000	55	39	28	24	22	15
TWT Cold	S	10000	110	80	55	50	40	30
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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