PRODUCT INFORMATION PACKET

Model No: TCA1103A1141GAC010 Catalog No: TCA1103A1141GAC010 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 315L Frame, TEFC



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Motors



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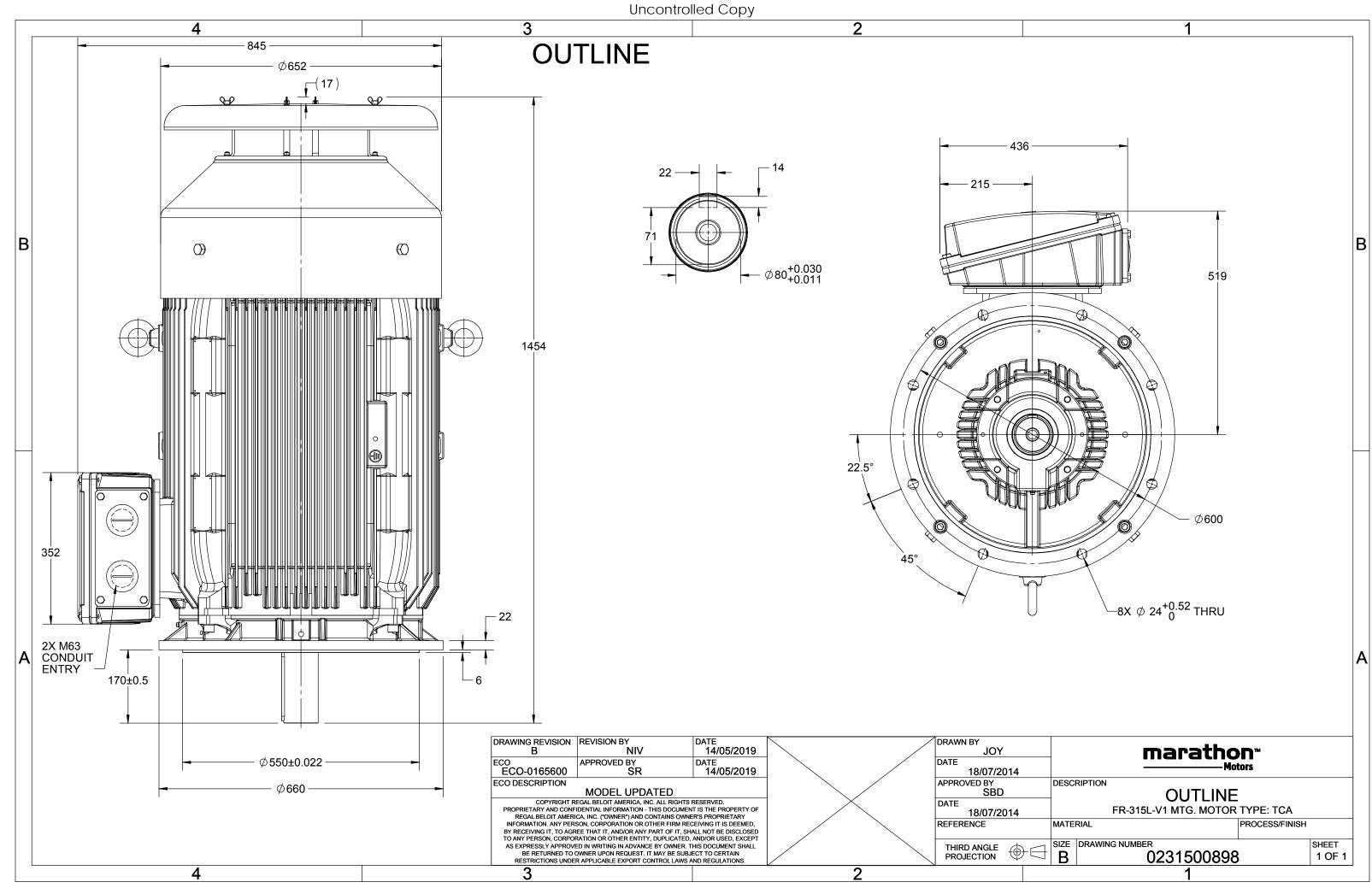
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	203.6 A	Speed	990 rpm
Service Factor	1	Phase	3
Efficiency	95.1 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1453 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500898	Connection Drawing	8442000085

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TerraMAX[®]

Model No. TCA1103A1141GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% 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	110	150	203.6	990	1079	IE3	-	95.1	95.1	95	0.82	0.79	0.69	5.4	1.8	2.2
			<u> </u>															
Motor	type				TCA				Dec	ree of	protecti	nn				IP 55		
Enclosu					TEFC					unting		511				IM V1		
	Materia	I			Cast Irc					oling me						IC 411		
Frame		1			315L					•	ght - ap	arov				1008		kg
Duty	3120				S1						sht - app					1053		∿s kg
,	e variatio	n *			± 10%					tor ine		107.				4.7728		kgm ²
	ency varia				± 5%					d inerti			Customer to Provide					KBIII
•	ned varia				10%					ration I	-					2.8		mm/s
Design					N						l (1mete	er distar	nce fror	n motor	.)	66		dB(A)
Service					1.0					No. of starts hot/cold/Equally spread					2/3/4			- ()
Insulati	ion class				F					rting m			,			DOL		
Ambier	nt tempe	erature			-20 to +	40		°C		e of co						Direct		
			resistance	e)	80 [Class	5 B]		К	LRV	withsta	nd time	(hot/co	ld)			15/30		S
-	e above				1000			meter	Dire	ection o	of rotatio	n			В	i-directiona	I	
Hazard	lous area	a classif	fication		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	essorie	s							
	Temper	rature o	class		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	ype			Alu	uminum D	ie cast				Ace	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	3				-		
DE / NI	DE beari	ng		63	19 C3/6	319 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	ble			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 2	40mm²/2 x	M63 x 1.5	
Type of	f grease		C	HEVRO	DN SRI-2 o	r Equival	ent		Aux	ciliary to	erminal	оох				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

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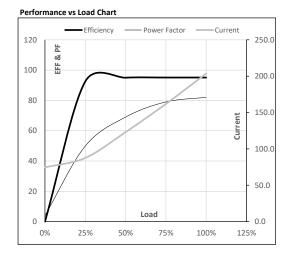


Model No. TCA1103A1141GAC010

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	110	150.0	203.6	990	110.03	1078.99	IE3	40	S1	1000	4.7728	1008

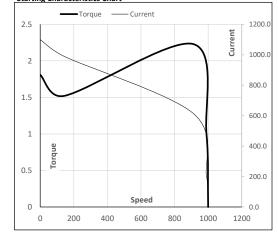
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	74.6	87.6	123.0	161.8	203.6	
Nm	0.0	267.7	536.7	807.1	1079.0	
r/min	1000	998	995	993	990	
%	0.0	92.5	95.0	95.1	95.1	
%	4.0	49.9	69.0	79.0	82.0	
	Nm r/min %	A 74.6 Nm 0.0 r/min 1000 % 0.0	A 74.6 87.6 Nm 0.0 267.7 r/min 1000 998 % 0.0 92.5	A 74.6 87.6 123.0 Nm 0.0 267.7 536.7 r/min 1000 998 995 % 0.0 92.5 95.0	A 74.6 87.6 123.0 161.8 Nm 0.0 267.7 536.7 807.1 r/min 1000 998 995 993 % 0.0 92.5 95.0 95.1	A 74.6 87.6 123.0 161.8 203.6 Nm 0.0 267.7 536.7 807.1 1079.0 r/min 1000 998 995 993 990 % 0.0 92.5 95.0 95.1 95.1



Motor Speed Torque Data Load Point LR P-Up BD Rated NL r/min 0 143 911 990 1000 Speed 203.6 Current 1099.4 989.5 615.2 74.6 А 1.8 1.5 2.2 1 0 Torque pu

Starting Characteristics Chart



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

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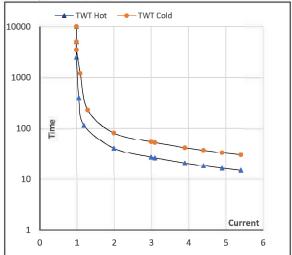
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	110	150.0	203.6	990	110.03	1078.99	IE3	40	S1	1000	4.7728	1008

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	S	10000	41	27	20	17	16	15
TWT Cold	s	10000	81	54	41	35	32	30
Current	pu	1	2	3	4	4.5	5	5.4

Thermal Characteristics Chart



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

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