PRODUCT INFORMATION PACKET

Model No: TCA1101AF111GAC010 Catalog No: TCA1101AF111GAC010 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 315S Frame, TEFC



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Motors

Fregal Rexnord



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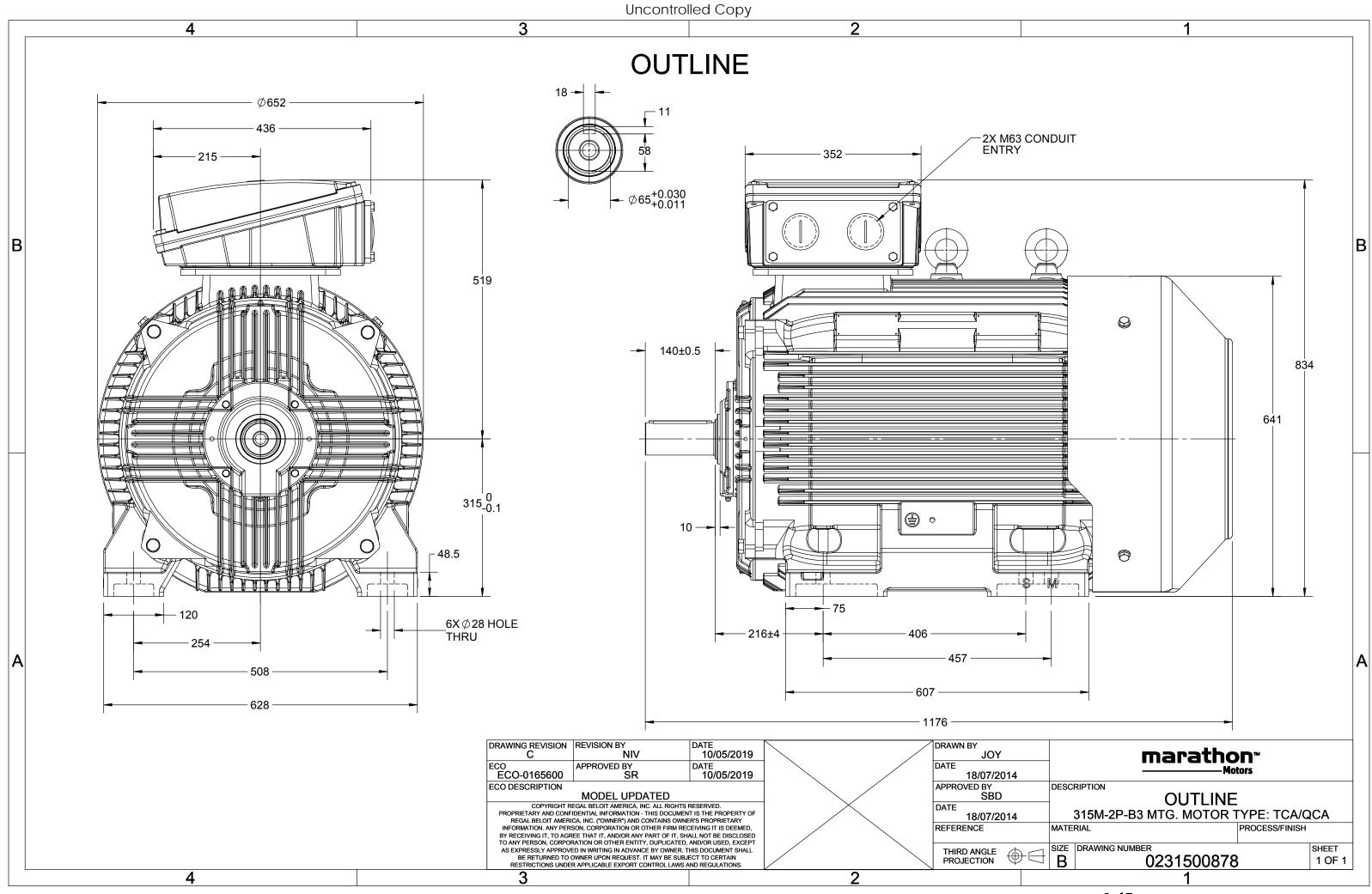
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	380 V
Current	199.5 A	Speed	2983 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315S	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	B3	Motor Orientation	Horizontal
Drive End Bearing	Сз	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500878	Connection Drawing	8442000085

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	Δ / Y	f	Р	Р	I I	n	Т	IE	9	% EFF at	t load	ł	PF	at lo	ad	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]
380	Δ	50	110	150	199.49	2983	358.07	IE3	-	95.2	95.2	92.7	0.88	0.85	0.78	7.2	2.0	3.6
Motor t	vpe				TCA				Deg	ree of	orotectio	on				IP 55		
Enclosu					TEFC				-	unting t						IM B3		
Frame N	Material				Cast Iro	n			Coo	ling me	thod					IC 411		
Frame s	ize				3155				Mo	tor weig	ght - app	orox.				974		kg
Duty					S1				Gro	ss weig	ht - app	rox.				1020		kg
Voltage	variatio	on *			± 10%				Motor inertia				Motor inertia					kgm ²
Frequer	ncy varia	ation *			± 5%				Loa	d inerti					Custo	omer to Provi	de	
Combin	ed varia	ariation * 10%				Vibr	ration le	evel					2.8		mm/s			
Design				N				Noi	Noise level (1meter distance from motor)					or) 83			dB(A)	
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spre	ad	2/3/4			
Insulatio	on class				F				Star	ting me	ethod				DOL			
Ambien	t tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Temper	ature ris	se (by r	esistance	e)	80 [Class	B]		К	LR v	vithstar	nd time	(hot/col	d)			15/30		S
Altitude	above s	sea leve	el		1000			meter	Dire	ection o	of rotatic	n			В	i-directional		
Hazardo	ous area	ı classifi	cation		NA				Star	ndard r	otation				Cloc	kwise form D	E	
2	Zone cla	assificat	ion		NA				Pair	nt shade	е				RAL 5014			
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory -	1				PTC 150°C		
Rotor ty	/pe			Al	uminum D	ie cast				Acc	cessory -	2				-		
Bearing	type			A	Anti-frictio	n ball				Acc	cessory -	3				-		
DE / ND	E bearir	ng		63	16 C3/63	316 C3			Terr	minal b	ox posit	ion				TOP		
Lubricat	tion met	thod			Regreasa	ble			Max	kimum	cable siz	e/cond	uit size	1R	x 3C x 2	40mm²/2 x M	63 x 1.5	
Type of	grease			CHEVRO	ON SRI-2 o	r Equival	ent		Aux	iliary te	erminal b	хох				NA		

 $\rm I_A/\rm I_N$ - Locked Rotor Current / Rated Current

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

 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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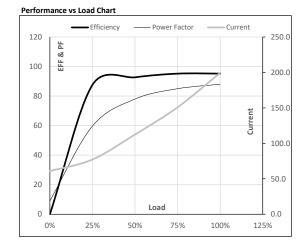


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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	110	150	199.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	974

Motor Load Data

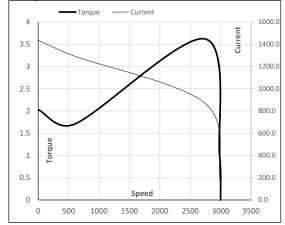
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	60.7	77.2	112.5	150.9	199.5	
Torque	Nm	0.0	89.1	178.5	268.2	358.1	
Speed	r/min	3000	2996	2992	2987	2983	
Efficiency	%	0.0	87.6	92.7	95.2	95.2	
Power Factor	%	9.1	59.7	78.0	85.0	88.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2744	2983	3000	
Current	А	1436.4	1292.7	869.8	199.5	60.7	
Torque	pu	2.0	1.7	3.6	1	0	





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

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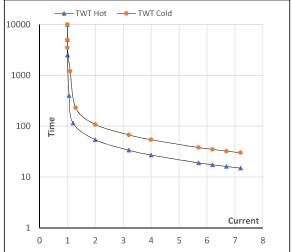
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	110	150.0	199.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	974

Motor Speed Torque Data

motor speet	i iorq	ue Data						
Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	54	39	27	24	22	15
TWT Cold	s	10000	108	80	54	50	40	30
Current	pu	1	2	3	4	5	5.5	7.2

Thermal Characteristics Chart



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

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