PRODUCT INFORMATION PACKET

Model No: TCA0754AF111GAC010 Catalog No: TCA0754AF111GAC010 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 315M Frame, TEFC



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Motors





Product Information Packet: Model No: TCA0754AF111GAC010, Catalog No:TCA0754AF111GAC010 TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 315M Frame, TEFC

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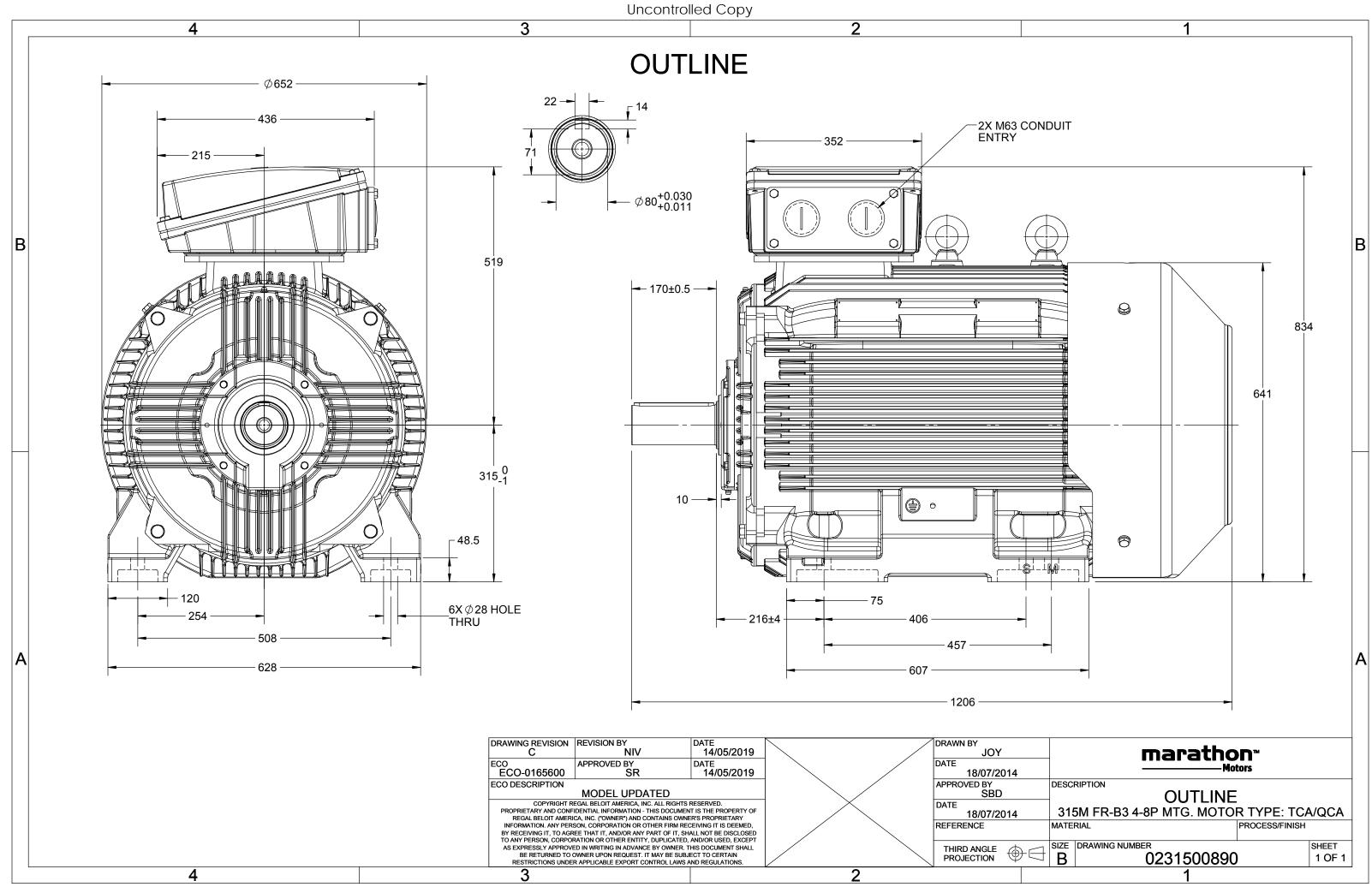
Nameplate Specifications

Output HP	100 Нр	Output KW	75.0 kW
Frequency	50 Hz	Voltage	380 V
Current	167.7 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	93.1 %	Power Factor	0.73
Duty	S1	Insulation Class	F
-	04514	- .	Tatalka Franka a di Fara Oraka d
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6319	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500890	Connection Drawing	8442000085

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3 of 7







Model No. TCA0754AF111GAC010

(V) Conn [Hz] [kW] [hp] [A] [RPM] [Nm] Class 5/4 FL FL 3/4 FL 1/2 FL [PL] 3/4 FL 1/2 FL 0.73 0.67 0.55 4.8 1.9 2.1 380 Δ 5.0 7.5 1.0 1.6 <td< th=""><th>U</th><th>Δ / Y</th><th>f</th><th>Р</th><th>Р</th><th>I</th><th>n</th><th>Т</th><th>IE</th><th></th><th>% EFF a</th><th>t load</th><th>1</th><th>PF</th><th>at lo</th><th>bad</th><th>I_A/I_N</th><th>T_A/T_N</th><th>$T_{\rm K}/T_{\rm N}$</th></td<>	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	$T_{\rm K}/T_{\rm N}$
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	DE / N	DE bearii	ng		63	19 C3/63	319 C3			Ter	minal b	ox posit	ion				TOP		
Type of grease CHEVRON SRI-2 or Equivalent Auxiliary terminal box NA	Lubrica	tion me	thod			Regreasa	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			CHEVRO	ON SRI-2 o	r Equiva	lent		Aux	iliary te	erminal l	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

 $\ensuremath{^*}$ 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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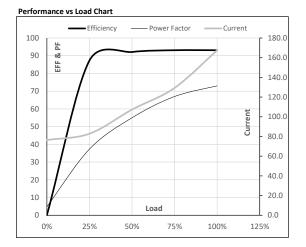


Model No. TCA0754AF111GAC010

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	75	100	167.7	743	97.86	959.68	IE3	40	S1	1000	4.8296	898
TEFC	380	Δ	50	75	100	167.7	743	97.86	959.68	IE3	40	S1	1000	4.8296	

Motor Load Data

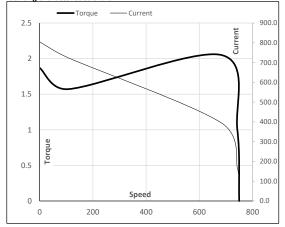
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	76.4	82.8	107.3	129.3	167.7	
Torque	Nm	0.0	238.2	477.4	717.8	959.7	
Speed	r/min	750	748	747	745	743	
Efficiency	%	0.0	87.3	92.1	93.1	93.1	
Power Factor	%	4.8	37.3	55.0	67.0	73.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	107	684	743	750	
Current	А	804.8	724.3	394.4	167.7	76.4	
Torque	pu	1.9	1.6	2.1	1	0	

Starting Characteristics Chart



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

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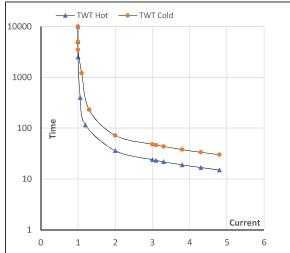
Model No. TCA0754AF111GAC010

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	75	100.0	167.7	743	97.86	959.68	IE3	40	S1	1000	4.8296	898

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	l ₄	l ₅	LR
TWT Hot	s	10000	36	24	20	18	16	15
TWT Cold	s	10000	72	48	39	36	32	30
Current	pu	1	2	3	3.5	4	4.5	4.8

Thermal Characteristics Chart



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

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