PRODUCT INFORMATION PACKET

Model No: QCA1601A1111GAA001 Catalog No: QCA1601A1111GAA001 TerraMAX® Cast Iron Motor, 215 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC



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1 of 7

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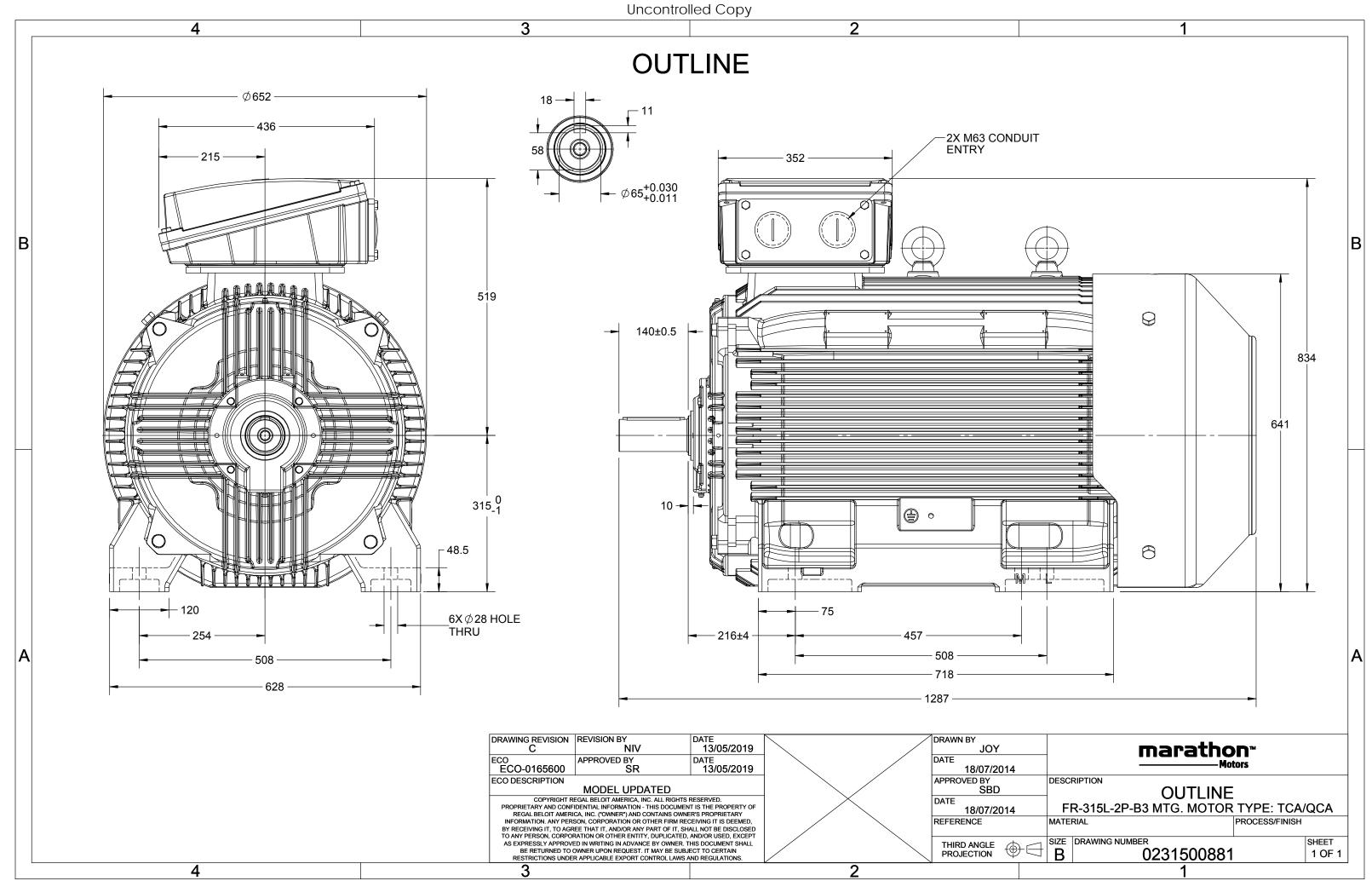
Nameplate Specifications

Output HP	215 Нр	Output KW	160.0 kW
Frequency	50 Hz	Voltage	400 V
Current	272.5 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	96.3 %	Power Factor	0.89
Duty	S1 Insulation (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
Number of Speeds	1	Efficiency Class	IE4

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	1287 mm	Frame Length	840 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500881	Connection Drawing	8442000085

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3 of 7





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Model No. QCA1601A1111GAA001

U	Δ / Y	f	Р	Р		n	т	IE	c	CEE of	t load	4	DE	at lo	ad	I _A /I _N	T_A/T_N	T_{κ}/T_{N}
-		-			1		-											
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL	-	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	160	215	269.5	2984	513.11	IE4	-	96.3	96.3	95.2	0.89	0.85	0.77	7.1	2.1	3.5
Motor	type				QCA				Deg	ree of	orotecti	on				IP 55		
Enclos	ure				TEFC				Mo	unting 1	type					IM B3		
Frame	Material	I			Cast Irc	n			Coc	oling me	thod					IC 411		
Frame	size				315L Motor weight - approx.								1182		kg			
Duty					S1				Gross weight - approx.					1227			kg	
Voltage	e variatio	on *			± 10%				Motor inertia						2.8294		kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia				Custo	omer to Provid	le			
Combi	ned varia	ation *			10%				Vib	ration le	evel					2.8		mm/s
Design					Ν				Noi	se level	(1mete	er distar	ice from	n motor)	83		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulat	ion class				F				Star	rting me	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	se (by r	resistand	ce)	80 [Class	5 B]		К	LR v	withsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	kwise form D	E	
	Zone cla	assifica	tion		NA				Pair	nt shade	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature c	lass		NA					Acc	essory	· 1				PTC 150°C		
Rotor t	уре			Al	uminum D	ie cast				Acc	essory	2				-		
Bearing	g type			A	Anti-frictio	n ball				Acc	essory	- 3				-		
DE / NI	DE bearir	ng		63	816 C3 / 6	316 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion met	thod			Regrease	ble			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 2	40mm²/2 x M	63 x 1.5	
	f grease			CHEVRO	DN SRI-2 o	r Equivale	ent		Aux	iliary te	rminal	hov				NA		

 I_A/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 combined variation are as per IEC60034-1

Technical da	ta are subject to chang	e. There may be slight v	variations between calculated v	alues in this datasheet a	and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:200	4 -	IEC:60034-30-1

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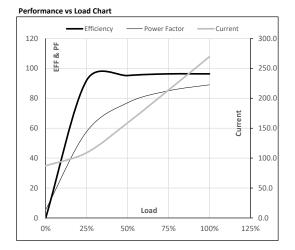


Model No. QCA1601A1111GAA001

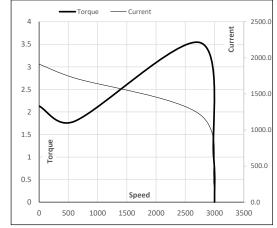
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	160	215	269.5	2984	52.32	513.11	IE4	40	S1	1000	2.8294	1182

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	87.2	109.0	159.0	213.7	269.5	
Nm	0.0	127.8	255.9	384.3	513.1	
r/min	3000	2996	2992	2988	2984	
%	0.0	92.0	95.2	96.3	96.3	
%	5.5	57.7	77.0	85.0	89.0	
	Nm r/min %	A 87.2 Nm 0.0 r/min 3000 % 0.0	A 87.2 109.0 Nm 0.0 127.8 r/min 3000 2996 % 0.0 92.0	A 87.2 109.0 159.0 Nm 0.0 127.8 255.9 r/min 3000 2996 2992 % 0.0 92.0 95.2	A 87.2 109.0 159.0 213.7 Nm 0.0 127.8 255.9 384.3 r/min 3000 2996 2992 2988 % 0.0 92.0 95.2 96.3	A 87.2 109.0 159.0 213.7 269.5 Nm 0.0 127.8 255.9 384.3 513.1 r/min 3000 2996 2992 2988 2984 % 0.0 92.0 95.2 96.3 96.3



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 600 2745 2984 3000 Current А 1913.1 1721.8 1217.6 269.5 87.2 Torque pu 2.1 1.8 3.5 1 0

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

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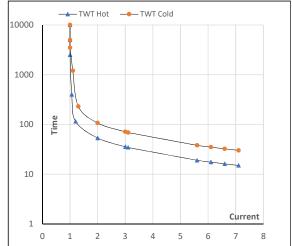
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	160	215	269.5	2984	52.32	513.11	IE4	40	S1	1000	2.8294	1182

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	53	36	30	25	20	15
TWT Cold	s	10000	107	71	65	50	45	30
Current	ри	1	2	3	4	5	5.5	7.1

Thermal Characteristics Chart



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

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