PRODUCT INFORMATION PACKET

Model No: QCA2001A1111GAA001 Catalog No: QCA2001A1111GAA001 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC



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Motors





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Nameplate Specifications

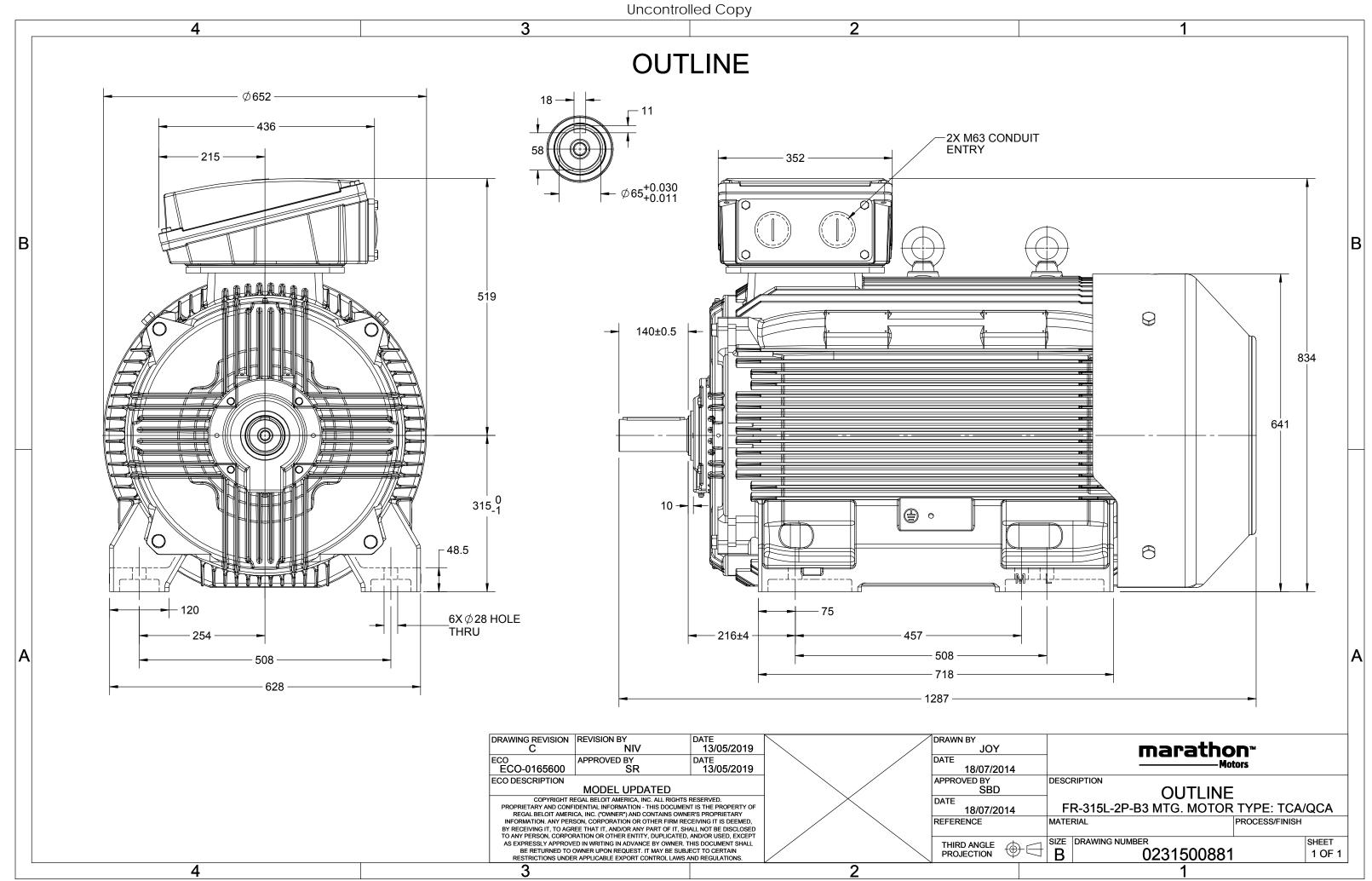
Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400 V
Current	338.2 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	96.5 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled

Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6316	Ambient Temperature Opp Drive End Bearing Size	40 °C 6316

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	C3
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		
Connection Drawing	8442000085	Outline Drawing	0231500881

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3 of 7





TerraMAX[®]

Model No. QCA2001A1111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE			t load			at lo		I _A /I _N	T_A/T_N	T_{K}/T_{N}	
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL		1/2FL	FL		1/2FL	[pu]	[pu]	[pu]	
400	Δ	50	200	270	336.1	2984	644.38	IE4	-	96.5	96.5	95.7	0.89	0.86	0.78	7	2.2	3.5	
Motor	tyne				QCA				Dec	ree of i	orotecti	on				IP 55			
Enclosi					TEFC					unting		011				IM B3			
	Materia									ling me						IC 411			
Frame		•			315L					•	ght - ap	nrox				1278		kg	
Duty	5120				S1											1323		kg	
	e variatio	on *			± 10%	ć	Gross weight - approx. Motor inertia								3.2219		kgm ²		
	ncy varia					± 5% Load									Custo	omer to Pro	vide	1.9.11	
	ned varia				10%					Vibration level						2.8		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor)						83		dB(A)	
Service					1.0					No. of starts hot/cold/Equally spread						2/3/4			
Insulati	ion class	5			F					Starting method						DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct			
Tempe	rature ri	ise (by r	resistand	ce)	80 [Class	5 B]		К	LR V	LR withstand time (hot/cold)						15/30		S	
Altitud	e above	sea lev	el		1000			meter	Dire	Direction of rotation						i-directiona	ıl		
Hazard	lous area	a classif	ication		NA				Star	Standard rotation						kwise form	DE		
	Zone cl	assifica	tion		NA				Pair	Paint shade						RAL 5014			
	Gas gro	oup			NA				Acc	Accessories									
	Temper	rature c	lass		NA					Accessory - 1						PTC 150°C			
Rotor t	ype			Al	Aluminum Die cast					Accessory - 2						-			
Bearing	g type			A	Anti-frictio	n ball				Acc	essory	- 3				-			
DE / NI	DE beari	ng		63	816 C3 / 6	316 C3			Ter	minal b	ox posit	ion				TOP			
Lubrica	ation me	thod			Regrease	able			Ma							R x 3C x 240mm²/2 x M63 x 1.5			
Type of	f grease			CHEVRO	DN SRI-2 d	r Equivale	ent		Aux	iliary te	erminal	box				NA			

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $T_{\text{A}}/T_{\text{N}}$ - 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	ariations between calculated v	alues in this datasheet a	nd the motor name	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC:60034-30-1

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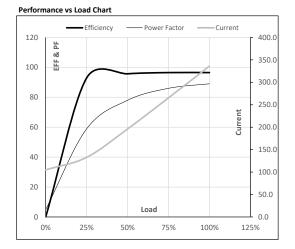


Model No. QCA2001A1111GAA001

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	200	270	336.1	2984	65.71	644.38	IE4	40	S1	1000	3.2219	1278

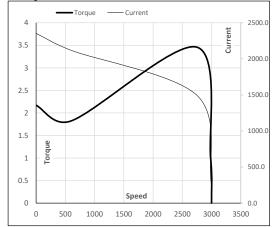
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	104.9	132.8	196.1	265.4	336.1	
Nm	0.0	160.4	321.3	482.6	644.4	
r/min	3000	2996	2992	2988	2984	
%	0.0	92.9	95.7	96.5	96.5	
%	4.9	58.9	78.0	86.0	89.0	
	Nm r/min %	A 104.9 Nm 0.0 r/min 3000 % 0.0	A 104.9 132.8 Nm 0.0 160.4 r/min 3000 2996 % 0.0 92.9	A 104.9 132.8 196.1 Nm 0.0 160.4 321.3 r/min 3000 2996 2992 % 0.0 92.9 95.7	A 104.9 132.8 196.1 265.4 Nm 0.0 160.4 321.3 482.6 r/min 3000 2996 2992 2988 % 0.0 92.9 95.7 96.5	A 104.9 132.8 196.1 265.4 336.1 Nm 0.0 160.4 321.3 482.6 644.4 r/min 3000 2996 2992 2988 2984 % 0.0 92.9 95.7 96.5 96.5



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	600	2745	2984	3000					
Current	А	2352.8	2117.5	1498.5	336.1	104.9					
Torque	pu	2.2	1.8	3.5	1	0					

Starting Characteristics Chart



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

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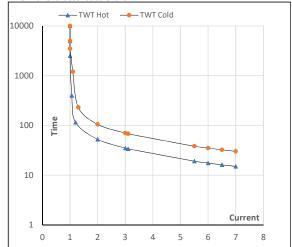
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270	336.1	2984	65.71	644.38	IE4	40	S1	1000	3.2219	1278

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	53	35	30	25	19	15
TWT Cold	s	10000	105	70	65	50	38	30
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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