PRODUCT INFORMATION PACKET

Model No: QCA0301A1111GAA001 Catalog No: QCA0301A1111GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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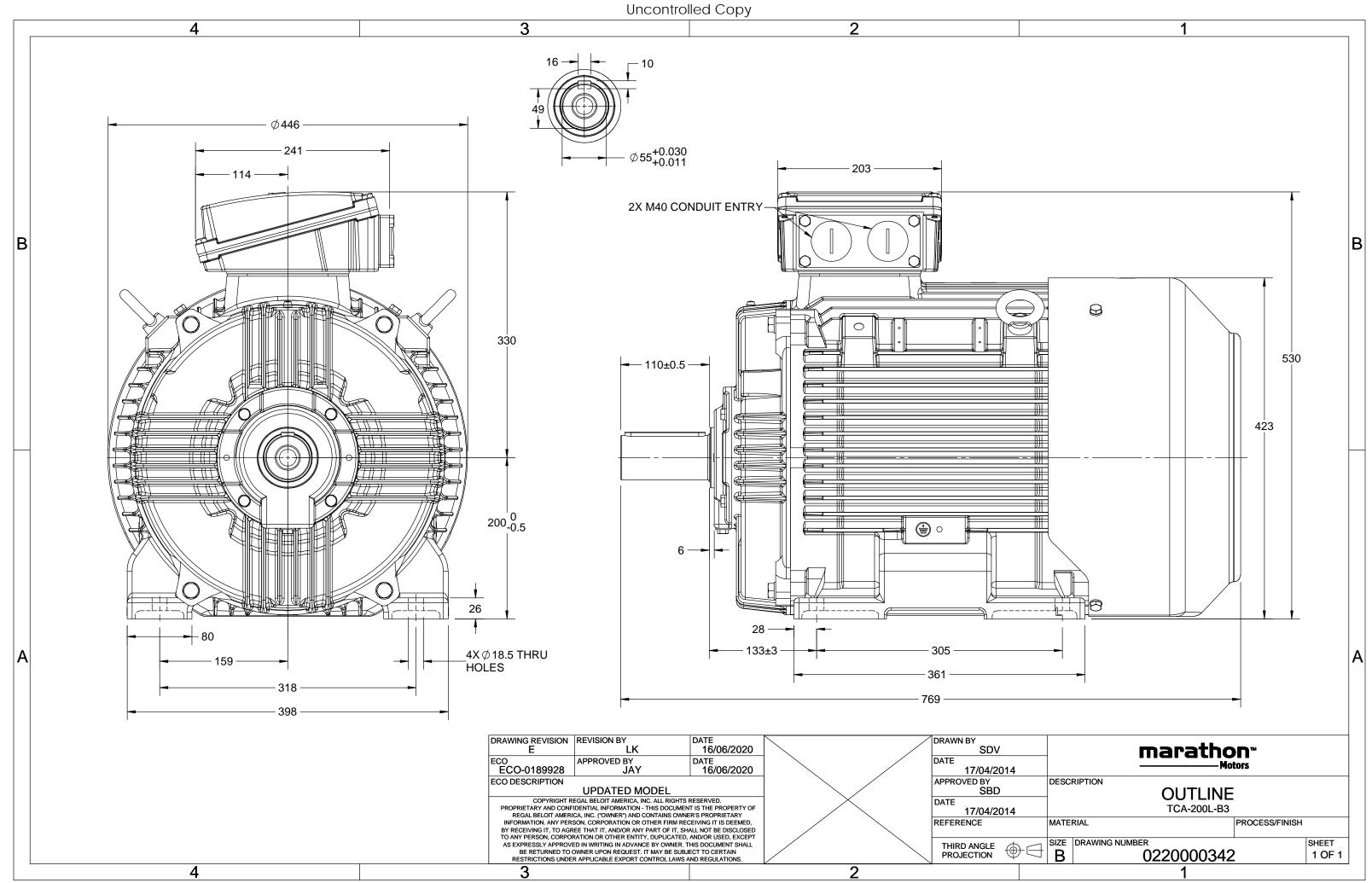
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	52.7 A	Speed	2974 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	200L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6312	Ambient Temperature Opp Drive End Bearing Size	40 °C 6212

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	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000342

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U	Δ / Y	f	Р	Ρ	I.	n	т	IE	9	% EFF a	t load	b	PF	at lo	bad	I_A/I_N	T_A/T_N	T _κ /Τ _№
(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	30	40	52.7	2974	95.79	IE4	-	94.5	94.5	92.8	0.87	0.83	0.74	7.2	2.1	3.6
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Mo	unting	type					IM B3		
Frame	Material				Cast Ir	on			Coc	oling me	ethod					IC 411		
Frame	size				200L				Мо	tor wei	ght - ap	prox.				307		k
Duty					S1				Gro	ss weig	ght - app	orox.				337		k
Voltage	e variatio	on *	± 10% * ± 5% * 10%						Мо	tor ine	rtia					0.3060		kgm
Freque	ncy varia	ation *		± 5%					Loa	d inerti	ia				Custo	omer to Provid	e	
Combir	ned varia	tion *			10%				Vib	Vibration level						2.2		mm/
Design					10% N			Noi	Noise level (1meter distance from moto)	73		dB(A	
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	se (by r	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)		15/30			
Altitude	e above	sea lev	el		1000)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	ı classif	ication		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	ature o	lass		NA					Ac	cessory	- 1				PTC 150°C		
Rotor t	уре			Alı	uminum [Die cast				Ac	cessory	- 2			-			
Bearing	g type				nti-frictio					Ace	cessory	- 3			-			
	DE bearii	•		63	12 C3 / 6						ox posit					TOP		
Lubrica	tion me	thod			Regreas						cable siz		uit size	1F	x 3C x 5	50mm²/2 x M4	0 x 1.5	
Type of	fgrease			CHEVRC	ON SRI-2 o	or Equivale	ent		Aux	diliary te	erminal	box				NA		

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

 T_K/T_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 combined variation are as per IEC60034-1

Technical da	ta are subject to chang	ge. There may be slight v	variations between calculated v	alues in this datashe	et and the motor name	olate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	2004 -	IEC:60034-30-1

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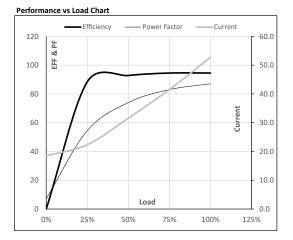


Model No. QCA0301A1111GAA001

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	30	40	52.7	2974	9.77	95.79	IE4	40	S1	1000	0.3060	307

Motor Load Data

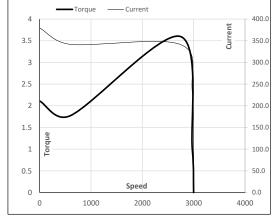
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	18.5	22.3	31.6	41.5	52.7	
Torque	Nm	0.0	23.8	47.7	71.7	95.8	
Speed	r/min	3000	2993	2987	2981	2974	
Efficiency	%	0.0	88.4	92.8	94.5	94.5	
Power Factor	%	7.1	54.5	74.0	83.0	87.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2736	2974	3000	
Current	А	379.6	341.7	232.1	52.7	18.5	
Torque	pu	2.1	1.8	3.6	1	0	

Starting Characteristics Chart



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

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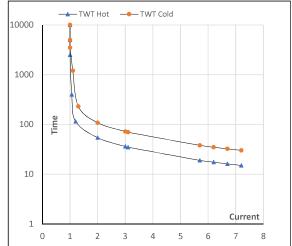
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Enclosure	U	Δ / Y	f	Р	Р	Т	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	30	40	52.7	2974	9.77	95.79	IE4	40	S1	1000	0.3060	307

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	54	36	30	25	20	15
TWT Cold	s	10000	108	72	65	50	45	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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