PRODUCT INFORMATION PACKET

Model No: QCA2P21A1111GAA001 Catalog No: QCA2P21A1111GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 90L Frame, TEFC



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marathon[®] Motors



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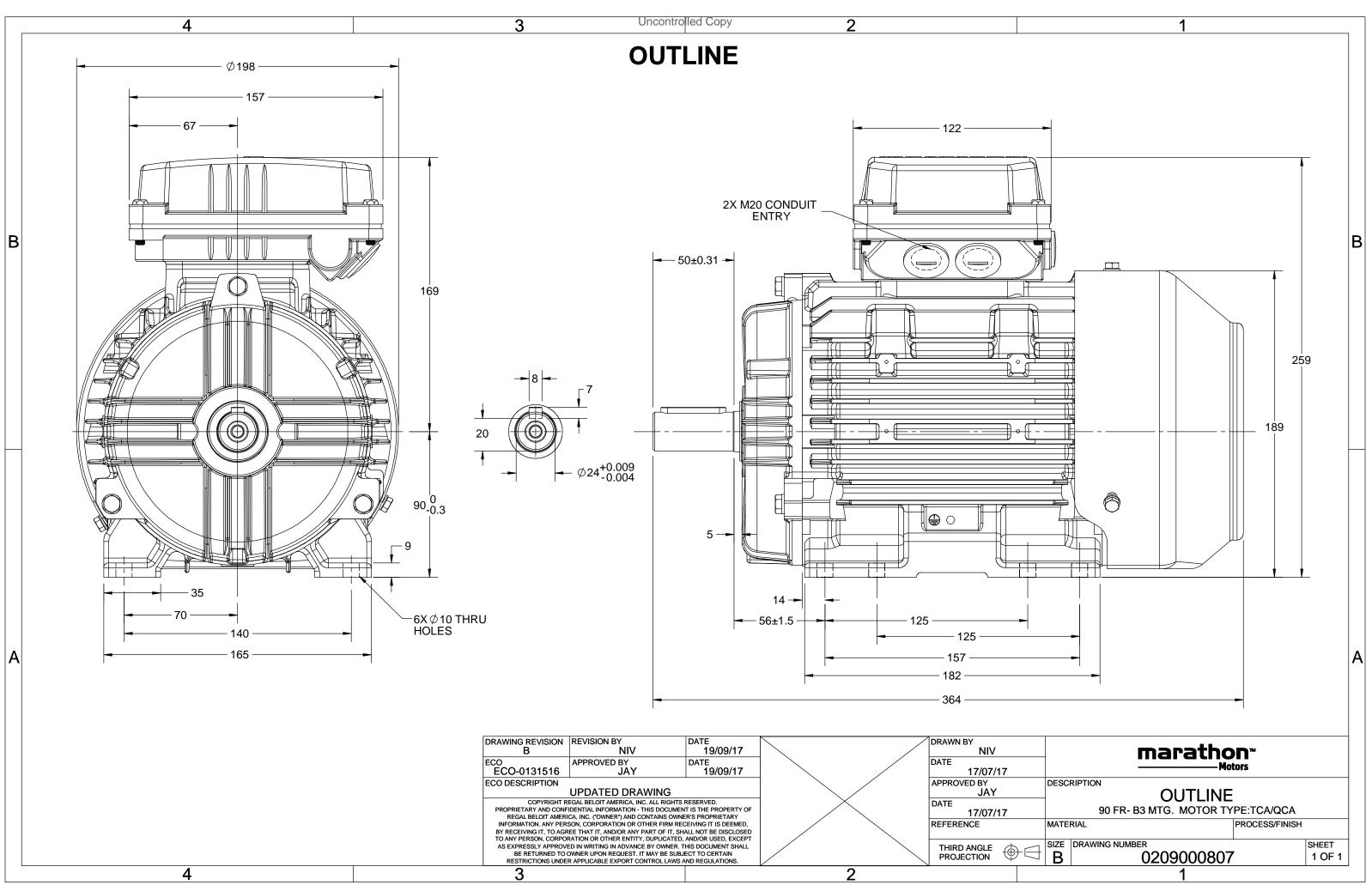
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	4.2 A	Speed	2902 rpm
Service Factor	1	Phase	3
Efficiency	88 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	364 mm	Frame Length	185 mm	
Shaft Diameter	24 mm	Shaft Extension	50 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0209000807	Connection Drawing	8442000085	

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Model No. QCA2P21A1111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	at loa	d	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(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	Y	50	2.2	3.0	4.2	2902	7.36	IE4	-	88	88	86.3	0.86	0.79	0.66	9.1	4.6	4.4
Motor	tyne				QCA				Deg	ree of	protecti	on				IP 55		
Enclos					TEFC					unting	•	on				IM B3		
	Material	1			Cast Ir	on				ling m						IC 411		
Frame					90L					0	ight - ap	prox.				30		kg
Duty					S1						ght - app					31		kg
	e variatio	on *			± 10%	6				tor ine	• • •					0.0030		kgm ²
Freque	ency varia	ation *			± 5%				Loa	d inert	ia				Cust	omer to Prov	ide	-
Combi	ned varia	ation *			10%				Vib	ration	level					1.6		mm/s
Design					Ν				Noi	se leve	el (1mete	er distar	ice fron	n motor)	63		dB(A)
Service	factor				1.0				No.	of star	rts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Star	rting m	nethod					DOL		
Ambie	nt tempe	erature			-20 to +	-40		°C	Тур	e of co	oupling					Direct		
Tempe	rature ri	se (by r	resistand	ce)	80 [Clas	s B]		К	LR v	vithsta	nd time	(hot/co	ld)			10-Jun		S
Altitud	e above	sea lev	el		1000)		meter	Dire	ection	of rotatio	on			В	Bi-directional		
Hazard	lous area	a classif	ication		NA				Star	ndard i	rotation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	le					RAL 5014		
	Gas gro	up			NA				Acc	essorie	es							
	Temper	ature o	lass		NA					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype				uminum [Ac	cessory	- 2				-		
Bearin	g type				nti-frictio					Ac	cessory	- 3				-		
DE / N	DE beariı	ng			05-2Z / 6				Teri	minal b	oox posit	tion				TOP		
Lubrica	ation me	thod		Ģ	Greased for	or life			Max	ximum	cable si	ze/cond	uit size	1R	R x 3C x 2	10mm²/2 x M	20 x 1.5	
Туре о	f grease				NA				Aux	iliary t	erminal	box				NA		
I _A /I _N - L	ocked R	otor Cu	irrent / F	Rated Cu	irrent				Т _к /1	Γ _N - Bre	eakdown	Torque	/ Rated	l Torque	5			

 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	variations between calculated va	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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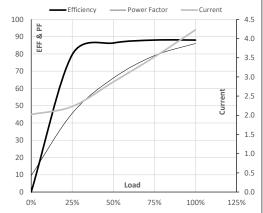
Model No. QCA2P21A1111GAA001

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	Y	50	2.2	3.0	4.2	2902	0.75	7.36	IE4	40	S1	1000	0.0030	30

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.0	2.2	2.9	3.5	4.2	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	3000	2975	2953	2928	2902	
Efficiency	%	0.0	79.6	86.3	88.0	88.0	
Power Factor	%	9.5	45.6	66.0	79.0	86.0	
Power Factor	%	9.5	45.6	66.0	79.0	86.0	

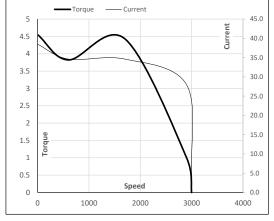
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1700	2902	3000	
Current	A	38.5	34.6	28.0	4.2	2.0	
Torque	pu	4.6	3.8	4.4	1	0	

Starting Characteristics Chart



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

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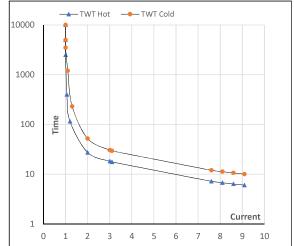
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Enclosure	U	Δ / Y	f	Ρ	Р	Ι	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.2	2902	0.75	7.36	IE4	40	S1	1000	0.0030	30

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	27	18	15	13	10	6
TWT Cold	s	10000	52	30	26	20	15	10
Current	pu	1	2	3	4	5	5.5	9.1

Thermal Characteristics Chart



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

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