PRODUCT INFORMATION PACKET

Model No: QCA0113AF111GAA001 Catalog No: QCA0113AF111GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 160L Frame, TEFC



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Motors



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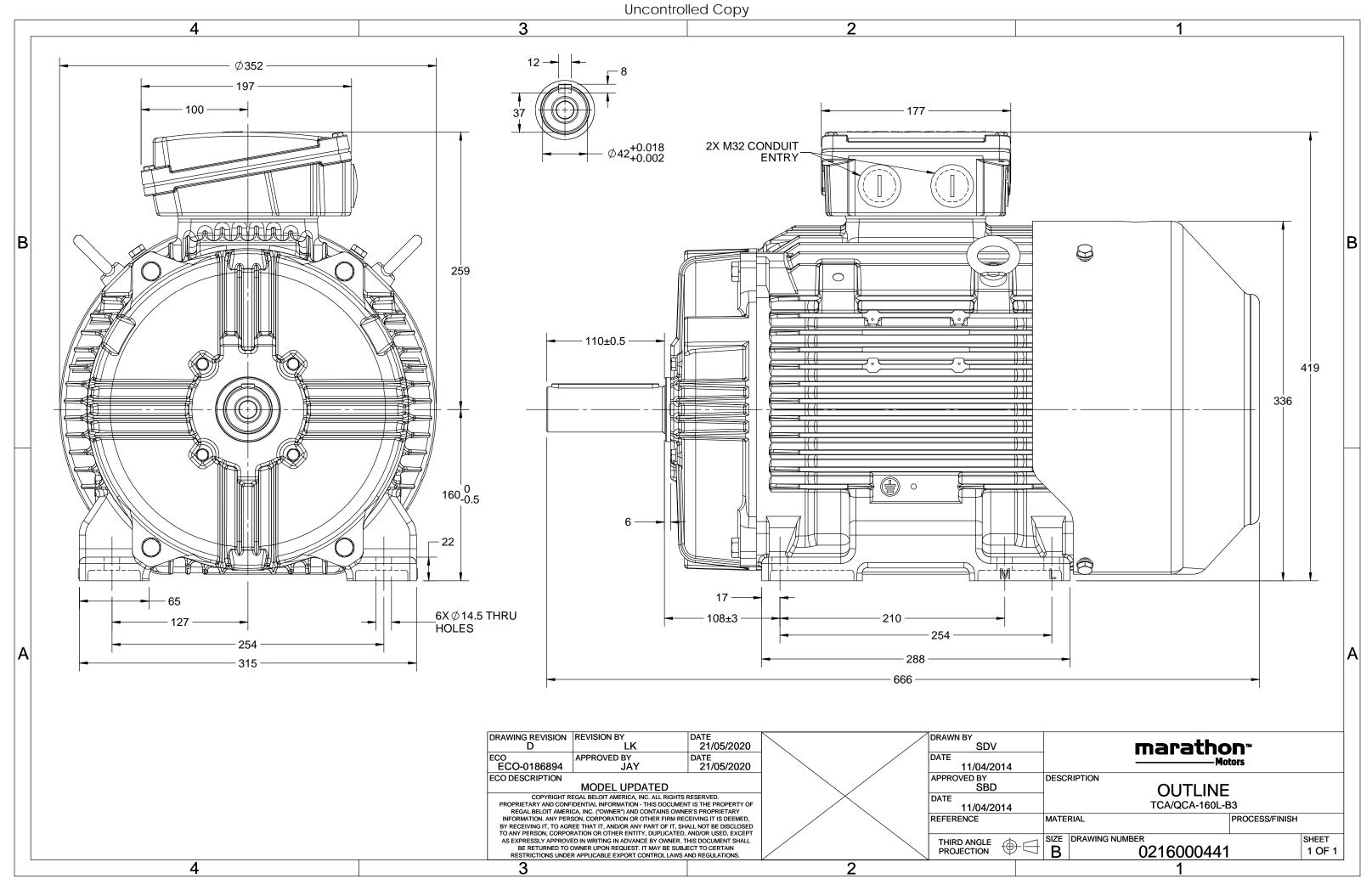
Nameplate Specifications

Output HP			11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	24.1 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1 Insulation Class		F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160L 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 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	6	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	666 mm	Frame Length	298 mm	
Shaft Diameter	42 mm	Shaft Extension	110 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0216000441	Connection Drawing	8442000085	

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Model No. QCA0113AF111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	PI	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]
380	Δ	50	11	15	23.8	984	108.63	IE4	-	92.3	92.3	89.7	0.76	0.67	0.53	7.7	3.1	3.5
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ure				TEFC				Мо	Mounting type						IM B3		
Frame	Materia				Cast Iro	on			Cod	Cooling method					IC 411			
Frame	size				160L				Мо	Motor weight - approx.					190			kg
Duty					S1				Gro	oss weig	ght - app	rox.			210			kg
Voltage	e variatio	on *			± 10%	Ď			Мо	tor iner	tia					0.2398		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	Load inertia					Custo	omer to Prov	vide	
Combi	ned varia	ation *			10%				Vibration level						2.2		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor					or) 61			dB(A)
Service	factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	6 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a 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					Aco	cessory -	1				PTC 150°C		
Rotor t	ype			Alu	uminum [Die cast				Aco	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Aco	cessory -	3				-		
DE / NI	DE bearii	ng		63	09-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		G	ireased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X N	/132 x 1.5	
Type of	f grease				NA				Aux	ciliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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 combine variation are as per IEC60034-1

Technical da	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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Enclosure	U	Δ / Y	f	Р	Р	1	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 3	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

Motor Load Data

Motor Speed Torque Data

r/min

А

ри

Load Point

Speed

Current

Torque

		1/4FL	1/2FL	3/4FL	FL	5/4FL
А	12.8	13.6	17.1	19.8	23.8	
Nm	0.0	26.8	53.9	81.1	108.6	
/min	1000	996	992	988	984	
%	0.0	83.5	89.7	92.3	92.3	
%	5.9	35.5	53.0	67.0	76.0	
	Nm /min %	Nm 0.0 /min 1000 % 0.0	Nm 0.0 26.8 /min 1000 996 % 0.0 83.5	Nm 0.0 26.8 53.9 /min 1000 996 992 % 0.0 83.5 89.7	Nm 0.0 26.8 53.9 81.1 /min 1000 996 992 988 % 0.0 83.5 89.7 92.3	Nm 0.0 26.8 53.9 81.1 108.6 /min 1000 996 992 988 984 % 0.0 83.5 89.7 92.3 92.3

P-Up

200

165.1

2.6

LR

0

183.5

3.1

BD

866

99.4

3.5

Rated

984

23.8

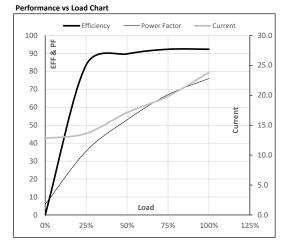
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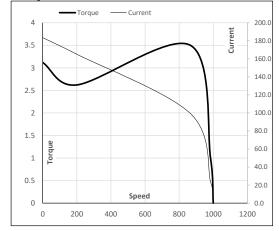
1000

12.8

0



Starting Characteristics Chart



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

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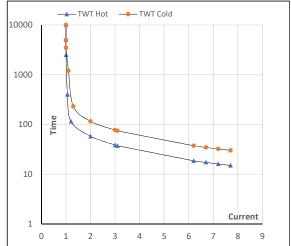
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	58	39	30	25	20	15
TWT Cold	s	10000	116	77	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.7

Thermal Characteristics Chart



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

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