PRODUCT INFORMATION PACKET

Model No: QCA0374AF111GAA001 Catalog No: QCA0374AF111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 280S Frame, TEFC



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Product Information Packet: Model No: QCA0374AF111GAA001, Catalog No:QCA0374AF111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 280S Frame, TEFC

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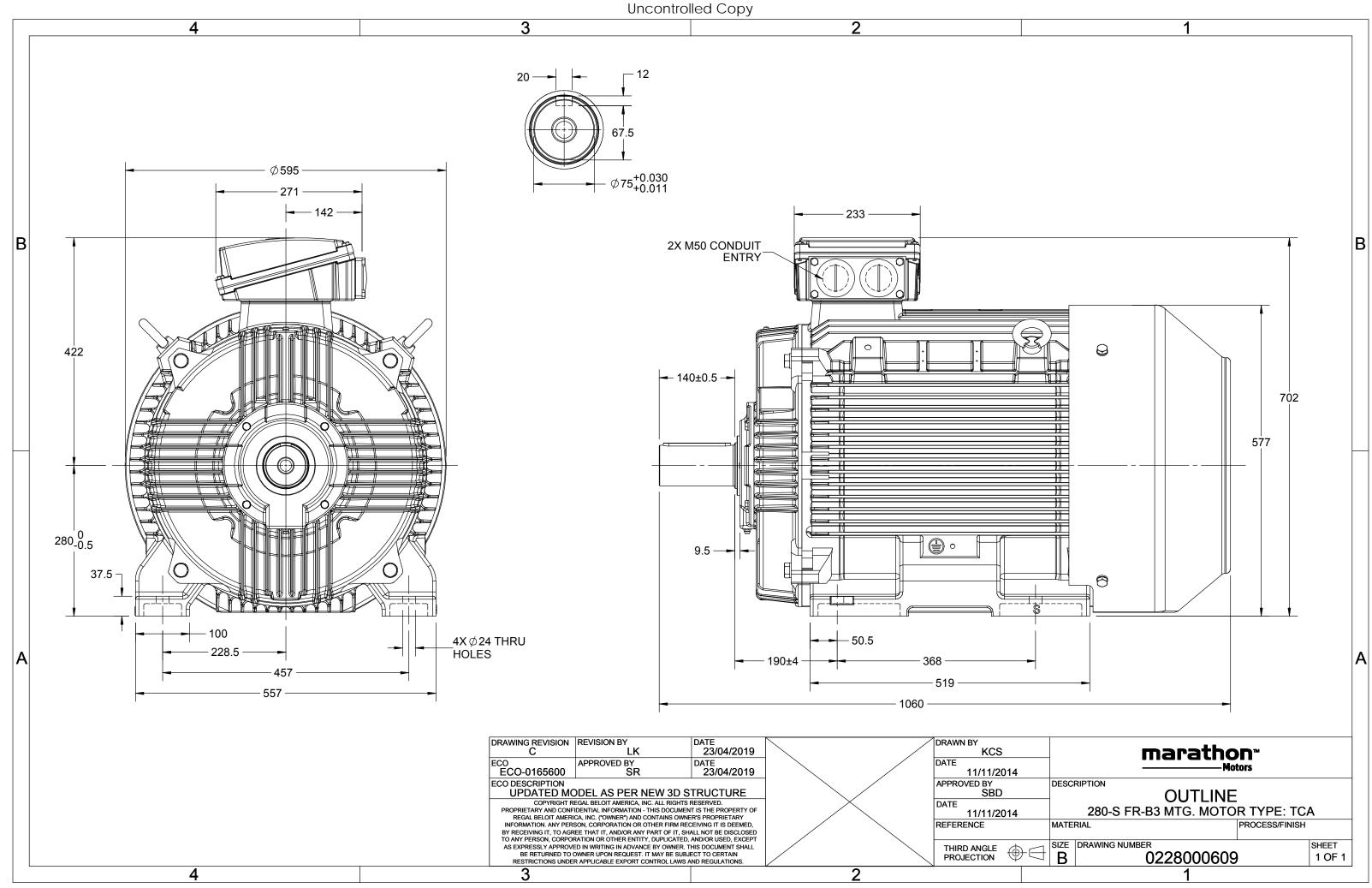
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380 V
Current	80.2 A	Speed	741 rpm
Service Factor	1	Phase	3
Efficiency	93.1 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	280S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	280S 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 6317	Ambient Temperature Opp Drive End Bearing Size	40 °C 6317

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1060 mm	Frame Length	549 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0228000609	Connection Drawing	8442000085

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Model No. QCA0374AF111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	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]
380	Δ	50	37	50	79.5	741	480.54	IE4	-	93.1	93.1	91.5	0.76	0.7	0.57	5.6	2.0	2.3
Motor	type				QCA				Dee	ree of	protecti	on				IP 55		
Enclosu	<i>'</i> .				TEFC					unting		511				IM B3		
	Material	1			Cast Iro					oling me						IC 411		
Frame					2805					•	ght - ap	arox				661		kg
Duty	,									• •					696		kg	
	variation * ± 10%							Gross weight - approx. Motor inertia						2.7750				
		riation * ± 5%							Load inertia						2.7750 kgr Customer to Provide			
	ned varia								Vibration level						2.2		mm/s	
Design					N				Noi	Noise level (1meter distance from motor)					·)	64		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			()
Insulati	on class				F					Starting method					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Typ	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)					15/30			S
Altitude	e above	sea lev	el		1000			meter	Dir	Direction of rotation					Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	Standard rotation					Clockwise form DE			
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Accessory - 1					PTC 150°C			
Rotor t	rpe Aluminum Die cast					Accessory - 2					-							
Bearing	g type			Anti-friction ball					Accessory - 3					-				
DE / NE	DE bearin	ng		63	817 C3 / 6	317 C3			Ter	Terminal box position					ТОР			
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1F	x 3C x 9	95mm²/2 x N	150 x 1.5	
Type of	grease			CHEVRO	DN SRI-2 d	r Equiva	ent		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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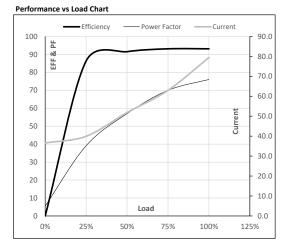


Model No. QCA0374AF111GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	37	50	79.5	741	49.00	480.54	IE4	40	S1	1000	2.7750	661
	500	-	50	5,	50	7515	7.12	13100	100101				1000	2.7750	0.

Motor Load Data

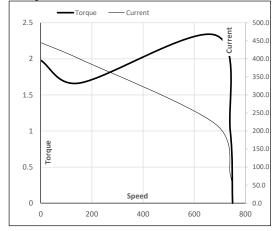
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	36.6	39.9	51.8	63.0	79.5	
Nm	0.0	119.1	238.8	359.3	480.5	
r/min	750	748	746	744	741	
%	0.0	86.3	91.5	93.1	93.1	
%	5.5	39.1	57.0	70.0	76.0	
	Nm r/min %	A 36.6 Nm 0.0 r/min 750 % 0.0	A 36.6 39.9 Nm 0.0 119.1 r/min 750 748 % 0.0 86.3	A 36.6 39.9 51.8 Nm 0.0 119.1 238.8 r/min 750 748 746 % 0.0 86.3 91.5	A 36.6 39.9 51.8 63.0 Nm 0.0 119.1 238.8 359.3 r/min 750 748 746 744 % 0.0 86.3 91.5 93.1	A 36.6 39.9 51.8 63.0 79.5 Nm 0.0 119.1 238.8 359.3 480.5 r/min 750 748 746 744 741 % 0.0 86.3 91.5 93.1 93.1



Motor Speed Torque Data

Motor Speed	i ioique bu						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	682	741	750	
Current	А	444.9	400.4	219.9	79.5	36.6	
Torque	pu	2.0	1.7	2.3	1	0	

Starting Characteristics Chart



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

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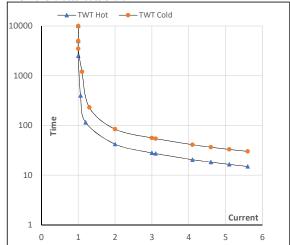
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	37	50	79.5	741	49.00	480.54	IE4	40	S1	1000	2.7750	661

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	42	28	21	17	16	15
TWT Cold	S	10000	84	56	42	34	31	30
Current	pu	1	2	3	4	5	5.5	5.6

Thermal Characteristics Chart



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

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