PRODUCT INFORMATION PACKET

Model No: QCA7P51A1121GAA001 Catalog No: QCA7P51A1121GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 132S Frame, TEFC



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Motors



Product Information Packet: Model No: QCA7P51A1121GAA001, Catalog No:QCA7P51A1121GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 132S Frame, TEFC

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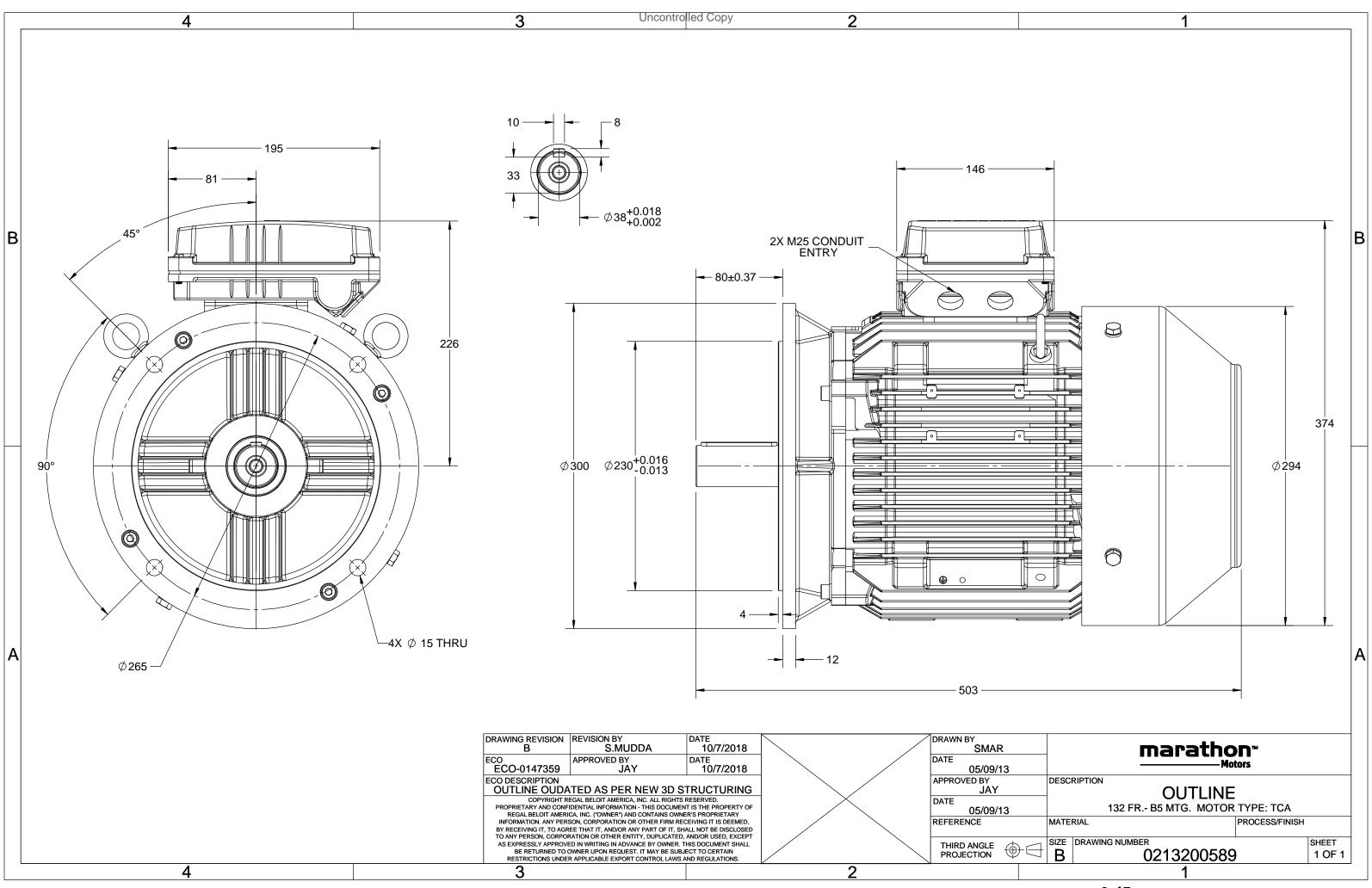
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	13.3 A	Speed	2943 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200589	Connection Drawing	8442000085

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Model No. QCA7P51A1121GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	at loa	d	PF	at lo	bad	I _A /I _N	T_A/T_N	T_{K}/T_{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	Δ	50	7.5	10	13.3	2943	24.20	IE4	-	91.7	91.7	90.3	0.89	0.85	0.75	8.8	3.1	4.3
Matar	ture				QCA				Dec	waa af	e vete et:					IP 55		
Motor Enclos					TEFC						protectio	DU				IM B5		
	ure Material				Cast Ire					unting t						IC 411		
Frame					1325					oling me						92		l a
	size				1525 S1					Motor weight - approx.						92		kg
Duty		*			± 10%	(Gross weight - approx. Motor inertia							0.0252			kg
	e variatio														Cust	omer to Prov	ido	kgm ²
	ncy varia				± 5%				d inerti					Custo	1.6	lue	,	
	ned varia	ation *			10% N					Vibration level Noise level (1meter distance from motor)						64		mm/s
Design					1.0										2/3/4			dB(A)
Service					1.0 F					No. of starts hot/cold/Equally spread					Z/3/4 DOL			
	ion class				-20 to +	40				Starting method								
	nt tempe			,				°C	11	Type of coupling					Direct			
	rature ri	• •		ce)	80 [Class	-		K		LR withstand time (hot/cold) Direction of rotation					15/30 g Bi-directional			S
	e above				1000			meter				n						
Hazard	ous area				NA						otation				CIOC	ckwise form E)E	
	Zone cla		tion		NA NA				Paint shade RAL 5014									
	Gas gro	•							Acc	essorie						DTC 450%C		
	Temper	ature c	lass		NA						cessory -					PTC 150°C		
Rotor t					uminum E						cessory -					-		
Bearing					nti-frictio						cessory -					-		
	DE bearir	0			08-2Z / 6						ox positi					TOP		
	ition met	thod		Ģ	Freased fo	or life						e/condu	it size	1R	1 x 3C x 1	16mm²/2 x M	25 x 1.5	
Type o	f grease				NA				Aux	diliary te	erminal k	юх				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm A}/T_{\rm N}$ - 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	e. There may be slight v	variations between calculate	d values 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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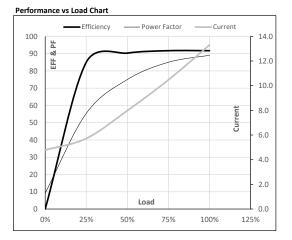


Model No. QCA7P51A1121GAA001

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	7.5	10	13.3	2943	2.47	24.20	IE4	40	S1	1000	0.0252	92

Motor Load Data

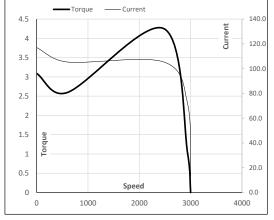
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.8	5.7	8.0	10.5	13.3	
Torque	Nm	0.0	6.0	12.0	18.1	24.2	
Speed	r/min	3000	2986	2972	2958	2943	
Efficiency	%	0.0	85.0	90.3	91.7	91.7	
Power Factor	%	9.2	55.4	75.0	85.0	89.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2481	2943	3000	
Current	А	117.0	105.3	71.2	13.3	4.8	
Torque	pu	3.1	2.6	4.3	1	0	

Starting Characteristics Chart



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

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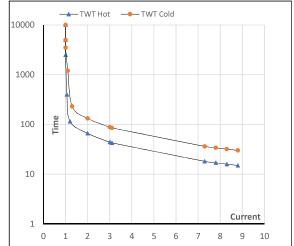
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10	13.3	2943	2.47	24.20	IE4	40	S1	1000	0.0252	92

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	66	44	35	25	20	15
TWT Cold	s	10000	132	88	70	50	40	30
Current	pu	1	2	3	4	5	5.5	8.8

Thermal Characteristics Chart



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

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