PRODUCT INFORMATION PACKET

Model No: QCA7P51AF111GAA001 Catalog No: QCA7P51AF111GAA001 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 132S Frame, TEFC



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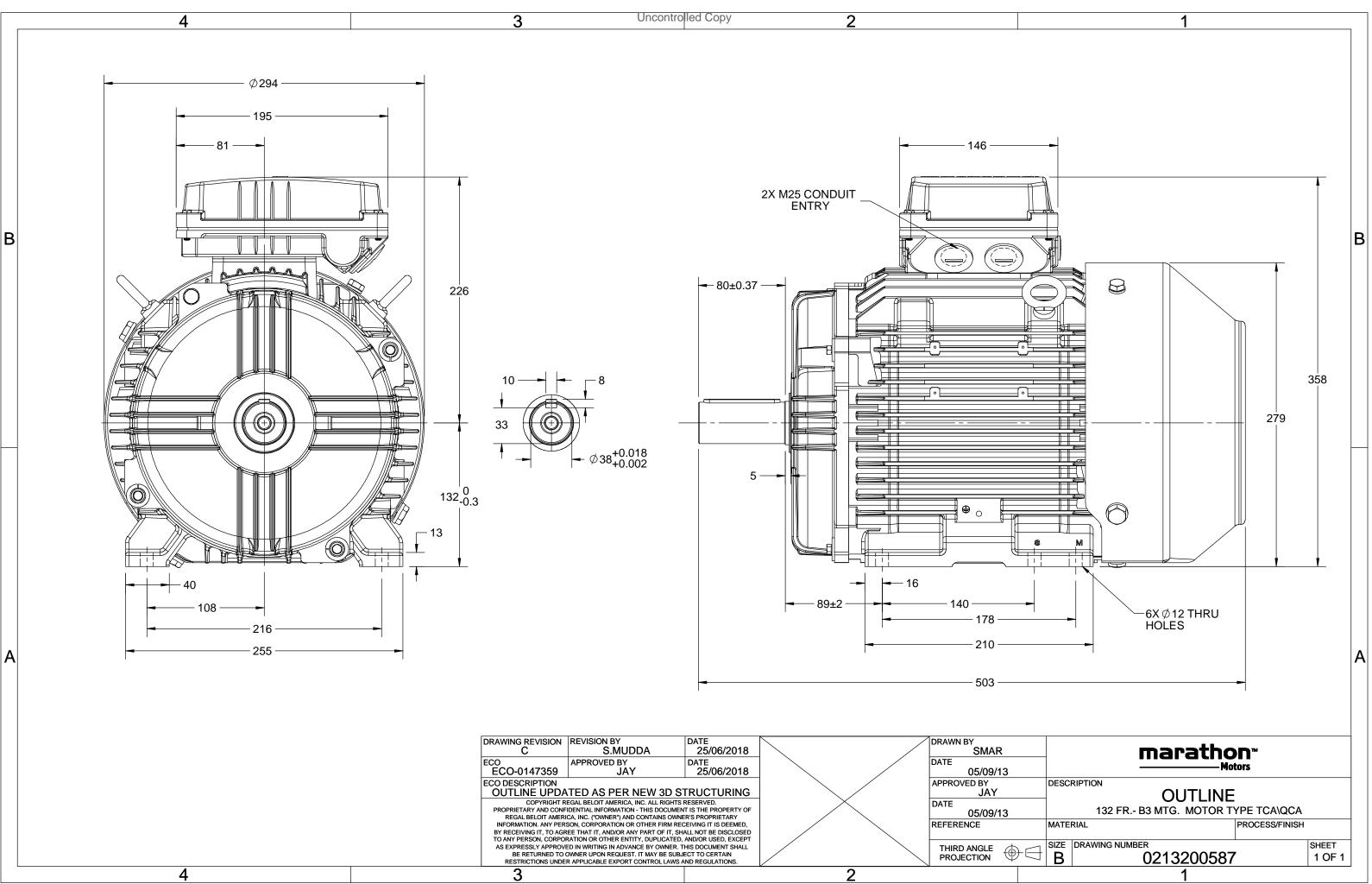
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	380 V
Current	14.0 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
Frame Thermal Protection	132S 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 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200587	Connection Drawing	8442000085

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Model No. QCA7P51AF111GAA001

$U \Delta / Y f$	Р	P I	n	т	IE	9	6 EFF at	:load	ł	PF	at_lc	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [[kW] [l	hp] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
380 Δ 50	7.5	10 14.0	2943	24.20	IE4	-	91.7	91.7	90.3	0.89	0.85	0.75	8.8	3.1	4.3
		00	•										IP 55		
Motor type		QC/				0		protecti	on						
Enclosure		TEF					unting t						IM B3		
Frame Material		Cast I				Cooling method							IC 411		
Frame size		132				Motor weight - approx.							89		kg
Duty		S1				Gross weight - approx.							92		kg
Voltage variation *		± 10	%			Motor inertia						tia 0.0252			kgm ²
Frequency variation *		± 59	6			Load inertia						Custo	omer to Provi	de	
Combined variation *		10%	6			Vibration level							1.6		mm/s
Design		Ν				Nois	se level	(1mete	er distar	nce fron	n motor)	64		dB(A)
Service factor		1.0)			No.	of start	s hot/c	old/Equ	ally spro	ead		2/3/4		
Insulation class		F				Star	ting me	ethod					DOL		
Ambient temperature		-20 to	+40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by res	sistance)	80 [Cla	ss B]		К	LR v	vithstar	nd time	(hot/co	ld)			15/30		s
Altitude above sea level		100	0		meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardous area classifica	ation	NA	ι .			Star	ndard ro	otation				Cloc	ckwise form D	E	
Zone classificatio	on	NA				Pair	nt shade	9					RAL 5014		
Gas group		NA				Acc	essories	5							
Temperature clas	ss	NA					Acc	essory -	1				PTC 150°C		
Rotor type		Aluminum	Die cast				Accessory - 2						-		
Bearing type		Anti-fricti	on ball			Accessory - 3					-				
DE / NDE bearing		6308-2Z/	6208-2Z			Terr						ТОР			
Lubrication method		Greased	or life				Terminal box position Maximum cable size/conduit size				1R	1R x 3C x 16mm²/2 x M25 x 1.5			
Type of grease		NA						rminal					NA		
//							,								

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

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

 $\ensuremath{^*}$ Voltage, Frequency and combine variation are as per IEC60034-1

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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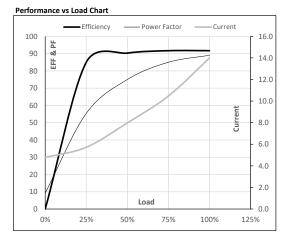


Model No. QCA7P51AF111GAA001

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	380	Δ	50	7.5	10	14.0	2943	2.47	24.20	IE4	40	S1	1000	0.0252	89

Motor Load Data

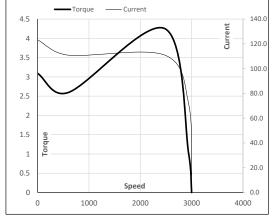
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	4.8	5.7	8.0	10.5	14.0	
Torque	Nm	0.0	6.0	12.0	18.1	24.2	
Speed	r/min	3000	2986	2972	2958	2943	
Efficiency	%	0.0	85.0	90.3	91.7	91.7	
Power Factor	%	9.2	55.4	75.0	85.0	89.0	
	-	-					



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2481	2943	3000	
Current	А	123.2	110.9	71.2	14.0	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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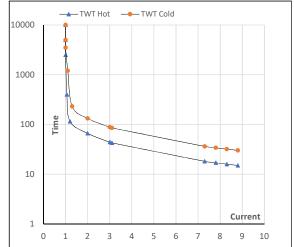
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	7.5	10	14.0	2943	2.47	24.20	IE4	40	S1	1000	0.0252	89

Motor Speed Torque Data

Load		FL	I_1	I ₂	I 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	ри	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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