PRODUCT INFORMATION PACKET

Model No: QCA0033AF171GAA001 Catalog No: QCA0033AF171GAA001 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 132S Frame, TEFC



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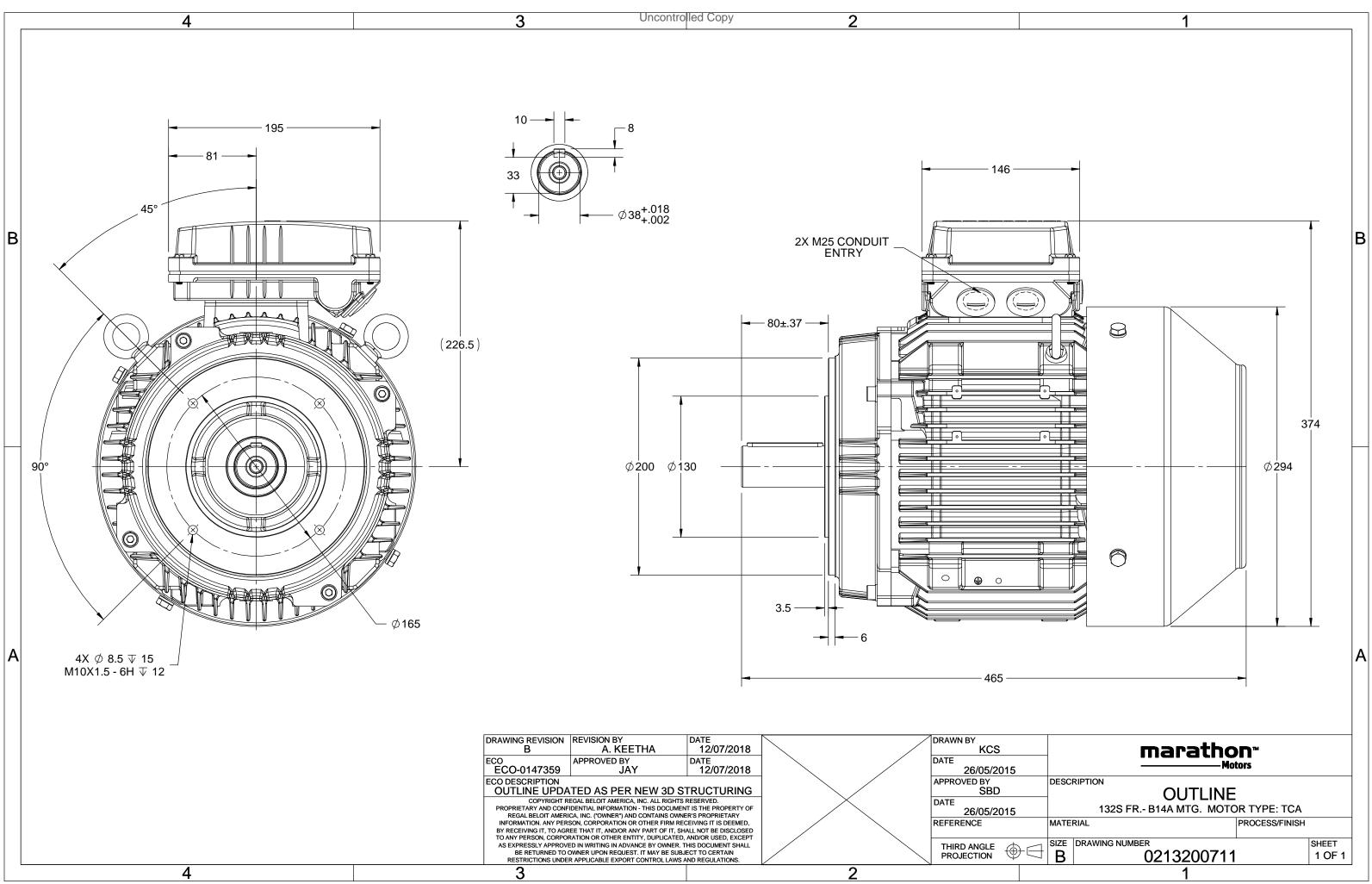
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	380 V
Current	6.9 A	Speed	976 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.75
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	6	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0213200711

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	% EFF a	t load	ł	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		1/2FL	[pu]	[pu]	[pu]
380	Y	50	3	4.0	6.9	976	29.22	IE4	-	88.6	88.6	87.3	0.75	0.67	0.53	6.1	2.1	2.7
Motor	tvne				QCA				Dee	ree of	protecti	on				IP 55		
Enclos					TEFC	2				unting						IM B14A		
	Materia	I			Cast Ir	on				oling me						IC 411		
Frame	size				1325	5				•	ght - ap	orox.				78		kg
Duty					S1						ht - app					81		kg
•	e variatio	on *			± 10%	6										0.0536		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Provid	le	
Combir	ned varia	ation *			10%			Motor inertia Load inertia Vibration level Noise level (1meter distance								1.6		mm/s
Design					Ν				Noi	se leve	(1mete	er distar	nce fron	n motor)	59		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class	5			F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by i	resistand	ce)	80 [Clas	s B]		к	LR v	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000)		meter	Dire	ection c	of rotatio	on			Bi-directional			
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clockwise form DE			
	Zone cla	assifica	tion		NA				Pair	Paint shade						RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Aco	cessory -	- 1				PTC 150°C		
Rotor t	уре			Al	սաiոստ (Die cast				Aco	cessory -	- 2				-		
Bearing	g type			ļ	Anti-frictio	on ball				Aco	cessory -	- 3				-		
DE / NI	DE beari	ng			308-2Z / 6				Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 3	16mm²/2 x M2	5 x 1.5	
Type of	fgrease				NA				Aux	diliary te	erminal l	хос				NA		
			irrent / F						Т _к /-	T _N - Bre	akdown	Torque	/ Rated	d Torque	9			
T_A/T_N -	Locked	Rotor T	orque /	Rated T	orque													

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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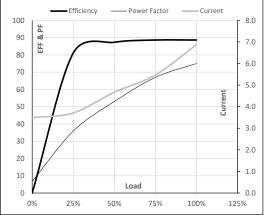
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	3	4.0	6.9	976	2.98	29.22	IE4	40	S1	1000	0.0536	78

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.5	3.7	4.7	5.5	6.9	
Torque	Nm	0.0	7.2	14.4	21.8	29.2	
Speed	r/min	1000	994	989	983	976	
Efficiency	%	0.0	81.1	87.3	88.6	88.6	
Power Factor	%	6.7	35.9	53.0	67.0	75.0	

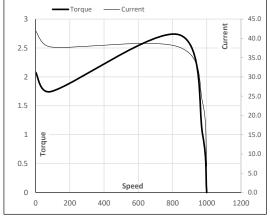
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	837	976	1000	
Current	А	41.9	37.8	23.3	6.9	3.5	
Torque	pu	2.1	1.7	2.7	1	0	

Starting Characteristics Chart



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

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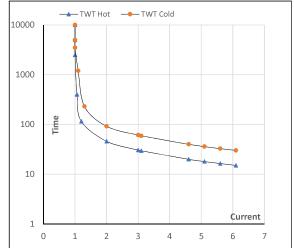
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Enclosure	U	Δ / Y	f	Ρ	Ρ	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	3.0	4.0	6.9	976	2.98	29.22	IE4	40	S1	1000	0.0536	78

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	46	31	27	18	17	15
TWT Cold	s	10000	92	61	50	37	34	30
Current	pu	1	2	3	4	5	5.5	6.1

Thermal Characteristics Chart



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

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