PRODUCT INFORMATION PACKET

Model No: QCA2P22AF133GAA001 Catalog No: QCA2P22AF133GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 100L Frame, TEFC



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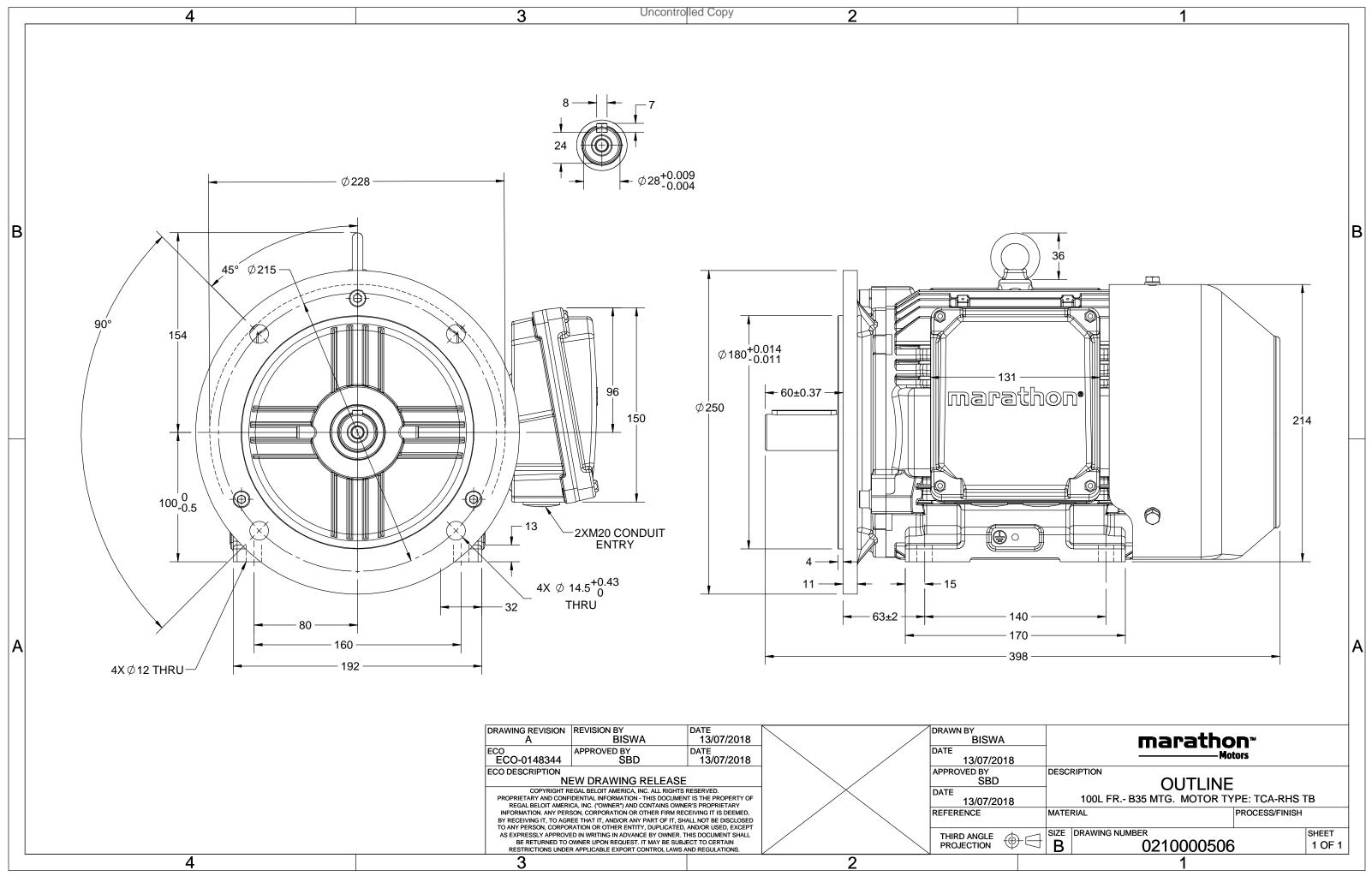
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW		
Frequency	50 Hz	Voltage	380 V		
Current	4.9 A	Speed	1462 rpm		
Service Factor	1	Phase	3		
Efficiency	89.5 %	Power Factor	0.77		
Duty	S1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	100L 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 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B35	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	398 mm	Frame Length	200 mm	
Shaft Diameter	28 mm	Shaft Extension	60 mm	
Assembly/Box Mounting	R Side			
Connection Drawing	8442000085	Outline Drawing	0210000506	

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$U = \Delta / Y$	f	Р	Р	I	n	т	IE	9	% EFF a	t load	d	PF	at lo	bad	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
(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 Y	50	2.2	3.0	4.9	1462	14.60	IE4	-	89.5	89.5	87.7	0.77	0.69	0.54	8	3.0	3.7
Motor type				QCA				Dec	ree of	protecti	on				IP 55		
Enclosure				TEFC					unting		011				IM B35		
Frame Material				Cast Iro					ling me						IC 411		
Frame size				100L					•	ght - ap	prox.				43		kį
Duty				S1						ght - app					46		k
Voltage variation	n *			± 10%	, D				tor iner						0.0125		kgm
Frequency variat				± 5%				Loa	d inerti	а				Cust	omer to Provide	2	0
Combined variat	tion *			10%				Vib	ration I	evel					1.6		mm/s
Design				Ν				Noi	se leve	l (1mete	er distar	nce from	n motor)	55		dB(A
Service factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
Insulation class				F				Sta	rting m	ethod					DOL		
Ambient temper	rature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperature rise	e (by re	esistanc	e)	80 [Clas	s B]		К	LR ۱	vithsta	nd time	(hot/co	ld)		15/30		:	
Altitude above s	ea leve	I		1000			meter	Dire	ection o	of rotatio	on			В	Bi-directional		
Hazardous area	classific	cation		NA				Sta	ndard r	otation				Clo	ckwise form DE		
Zone clas	ssificati	on		NA				Pair	nt shad	e					RAL 5014		
Gas grou	р			NA				Acc	essorie	S							
Tempera	ature cla	ass		NA					Ace	cessory	- 1				PTC 150°C		
Rotor type				uminum E					Ace	cessory	- 2				-		
Bearing type			A	nti-frictio	n ball				Ace	cessory	- 3				-		
DE / NDE bearin	g			06-2Z / 6				Ter	minal b	ox posit	ion				RHS		
Lubrication meth	hod		G	ireased fo	or life			Ma	kimum	cable si	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x M20) x 1.5	
Type of grease				NA				Aux	iliary te	erminal	box				NA		

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{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 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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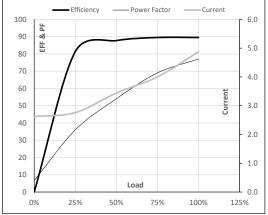
Model No. QCA2P22AF133GAA001

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	2.2	3.0	4.9	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.6	2.8	3.4	4.0	4.9	
Torque	Nm	0.0	3.6	7.2	10.9	14.6	
Speed	r/min	1500	1491	1482	1473	1462	
Efficiency	%	0.0	81.3	87.7	89.5	89.5	
Power Factor	%	6.6	36.0	54.0	69.0	77.0	

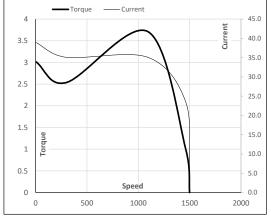
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1094	1462	1500	
Current	А	39.0	35.1	23.5	4.9	2.6	
Torque	pu	3.0	2.5	3.7	1	0	

Starting Characteristics Chart



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

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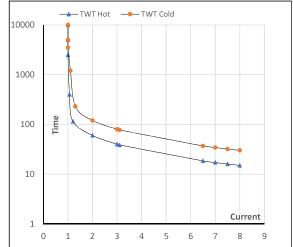
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	2.2	3.0	4.9	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	60	40	30	25	20	15
TWT Cold	s	10000	120	80	60	50	40	30
Current	pu	1	2	3	4	5	5.5	8

Thermal Characteristics Chart



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

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