PRODUCT INFORMATION PACKET

Model No: QCA2P22AF131GAA001 Catalog No: QCA2P22AF131GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 100L Frame, TEFC



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Product Information Packet: Model No: QCA2P22AF131GAA001, Catalog No:QCA2P22AF131GAA001 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 100L Frame, TEFC

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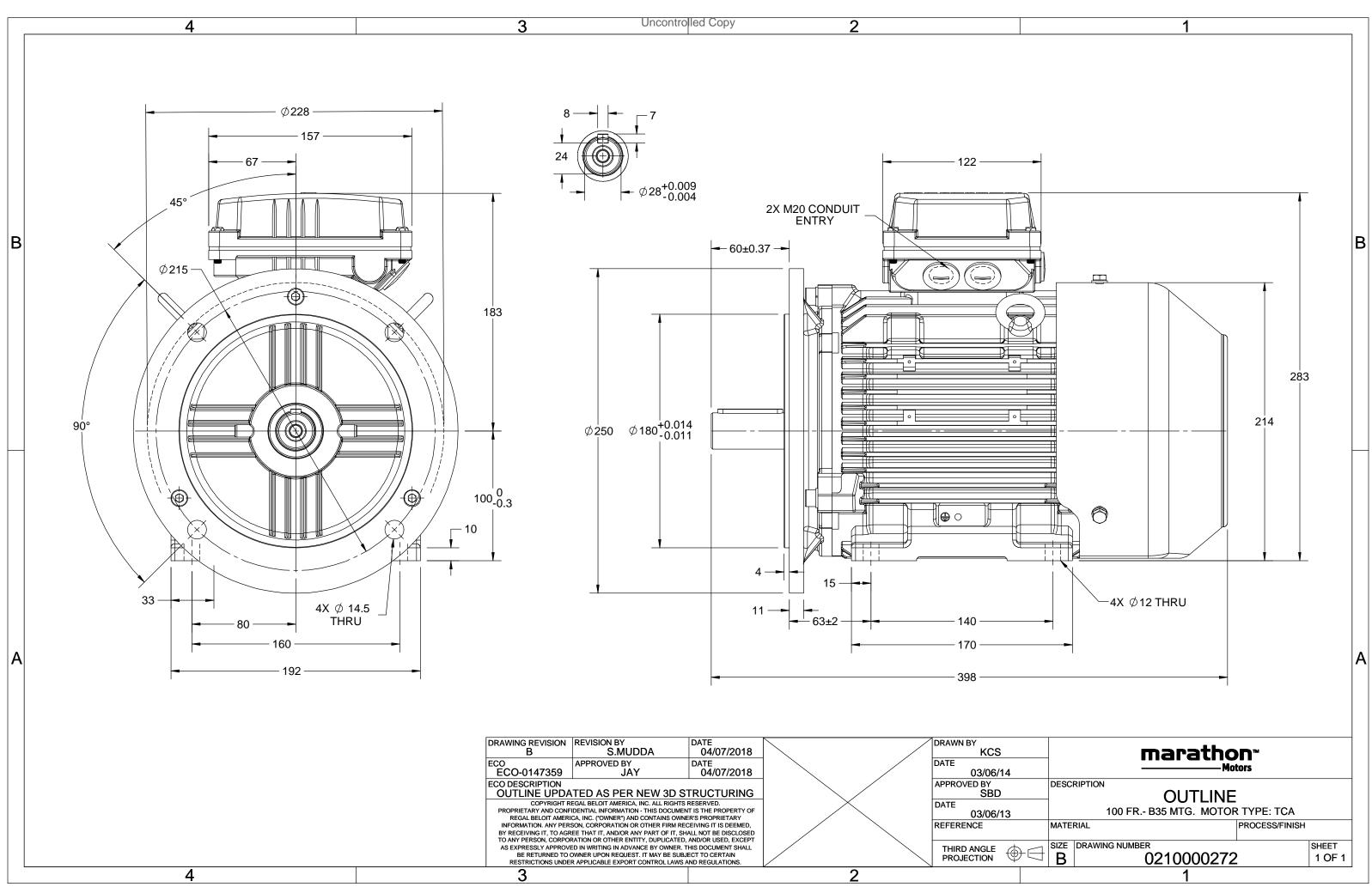
Nameplate Specifications

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		
_		F 1			
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	100L No Protection	Ambient Temperature	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000272

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U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	oad	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	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	tupo				QCA				Doc	roo of	protectio	on				IP 55		
Enclos	••				TEFC					unting		UII				IM B35		
	Materia				Cast Ire					ling me						IC 411		
Frame		1			100L					•	ght - app	arov				43		kg
Duty	5120				100L S1						ht - app					46		kg
•	e variatio	n *			± 10%	6				tor iner		10X.				0.0125		kgm ²
	ency varia				± 5%					d inerti					Cust	omer to Provi	de	Kgill
	ned varia				10%					ration l	-					1.6		mm/s
Design					10% N					Noise level (1meter distance from moto) 55		
•	e factor				N 1.0					No. of starts hot/cold/Equally spread					,	2/3/4		dB(A)
Insulat	ion class	5			F					rting m		,				DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	erature ri	ise (by i	resistand	e)	80 [Clas	s B]		К	LR withstand time (hot/cold)						15/30			s
Altitud	e above	sea lev	el		1000)		meter	Dire	ection o	of rotatio	on			Bi-directional			
Hazard	lous area	a classif	fication		NA				Sta	ndard r	otation				Clockwise form DE			
	Zone cl	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Acc	cessory -	· 1				PTC 150°C		
Rotor	type			Al	uminum [Die cast				Acc	cessory -	2				-		
Bearin	g type			A	Anti-frictic	on ball				Acc	essory -	- 3				-		
DE / N	DE beari	ng		62	206-2Z / 6	206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod		(Greased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	R x 3C x 2	10mm²/2 x M	20 x 1.5	
Type o	f grease				NA				Aux	iliary te	erminal l	хос				NA		
1.7	Locked R	otor Ci	irrent / E	Pated C	irrent				т. /	E Bro	akdown	Torquo	/ Rator	Torau	9			
A/ N - I	LOCKEU K		inent/r	varen Ci	anent				'K/	N - DIE	akuuwii	rorque		arorque	-			

 $T_{\rm A}/T_{\rm N}$ - 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

* 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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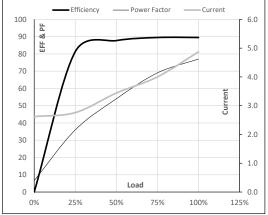
Model No. QCA2P22AF131GAA001

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	
Power Factor	%	6.6	36.0	54.0	69.0	77.0	

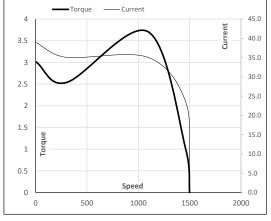
Performance vs Load Chart



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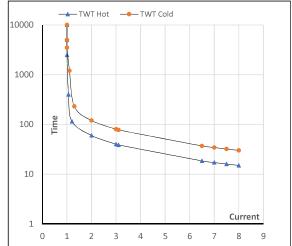
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	2.2	3.0	4.9	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l 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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