PRODUCT INFORMATION PACKET



Model No: QCA2P22AF121GAA001 Catalog No: QCA2P22AF121GAA001

TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 100L Frame, TEFC



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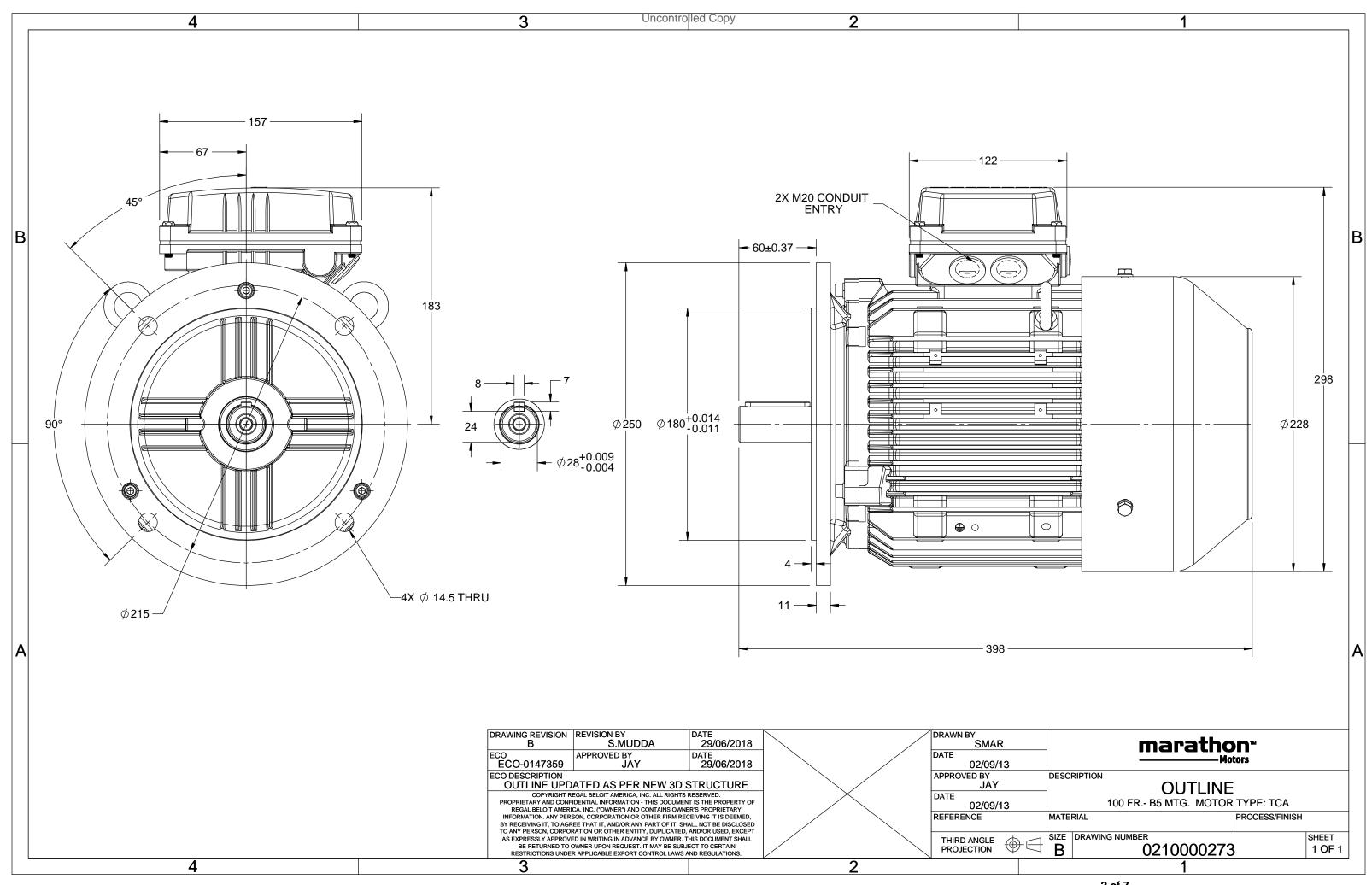
Nameplate Specifications

Output HP	3 Hp	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	S 1	Insulation Class	F		
Frame	100L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206		
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	4	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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000273

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. QCA2P22AF121GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	E % EFF at load			PF at load			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]
380	Υ	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	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	100L	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance)	80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6206-2Z / 6206-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	43	kg
Gross weight - approx.	46	kg
Motor inertia	0.0125	kgm ²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from motor	r) 55	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1	R x 3C x 10mm ² /2 x M20 x 1.5	
Auxiliary terminal 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 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	-	-	-	IFC: 60034-30

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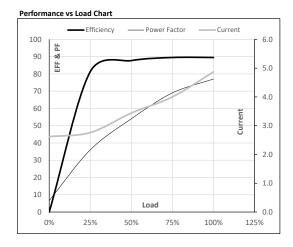




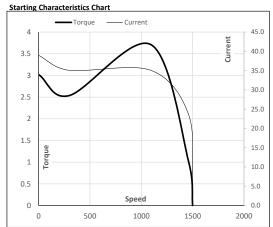
Model No. QCA2P22AF121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	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	Υ	50	2.2	3.0	4.9	1462	1.49	14.60	IE4	40	S1	1000	0.0125	43
	300	•	50	2.2	5.0	5	1.02	2.15	2			-	1000	0.0123	

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



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 300 1094 1462 1500 0 Speed r/min Current Α 39.0 35.1 23.5 4.9 2.6 Torque 0 pu



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

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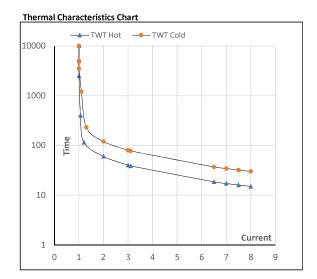




Model No. QCA2P22AF121GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Υ	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	l ₁	l ₂	l₃	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				



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

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