PRODUCT INFORMATION PACKET



Model No: QCA5P52AF171GAA001 Catalog No: QCA5P52AF171GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132S Frame, TEFC





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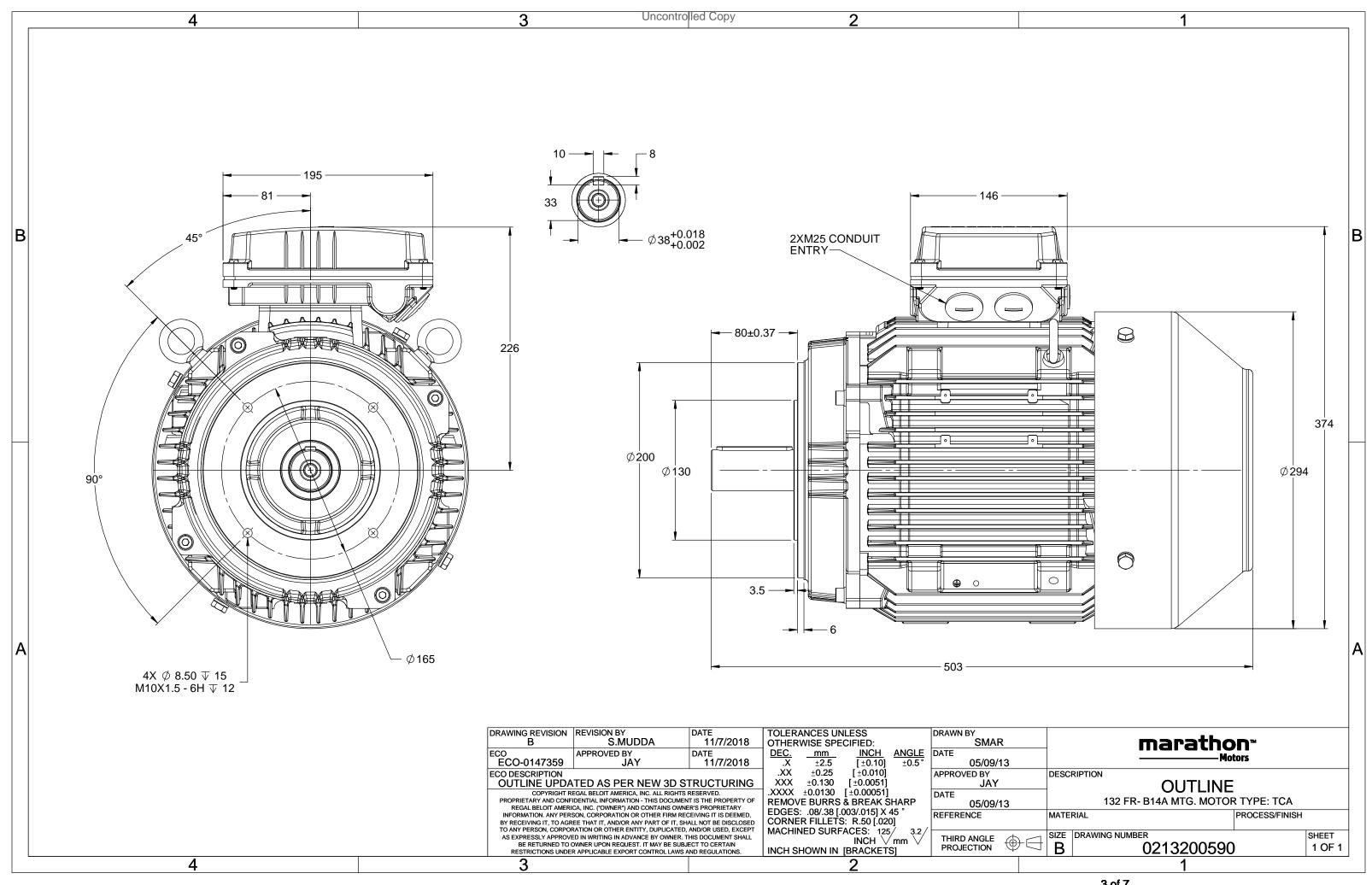
Nameplate Specifications

7.50 Hp	Output KW	5.5 kW		
50 Hz	Voltage	380 V		
11.6 A	Speed	1470 rpm		
1	Phase	3		
91.9 %	Power Factor	0.79		
S1	Insulation Class	F		
132S	Enclosure	Totally Enclosed Fan Cooled		
No Protection	Ambient Temperature	40 °C		
6308	Opp Drive End Bearing Size	6208		
No	CSA	No		
YES	IP Code	55		
1	Efficiency Class	IE4		
	50 Hz 11.6 A 1 91.9 % S1 132S No Protection 6308 No	To Hz Voltage 11.6 A Speed Phase 91.9 % Power Factor Insulation Class 132S Enclosure No Protection Ambient Temperature 6308 Opp Drive End Bearing Size No CSA YES IP Code		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200590	Connection Drawing	8442000085

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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. QCA5P52AF171GAA001

U	Δ/Υ	f	Р	Р	- 1	n	Т	IE	9	% EFF a	t load	i	PF	at lo	ad	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	Δ	50	5.5	7.5	11.5	1470	36.36	IE4	-	91.9	91.9	91.1	0.79	0.72	0.59	6.9	2.5	3.1

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	132S	
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	6308-2Z / 6208-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B14A	
Cooling method	IC 411	
Motor weight - approx.	88	kg
Gross weight - approx.	91	kg
Motor inertia	0.0476	kgm²
Load inertia	Customer to Provide	
Vibration level	1.6	mm/s
Noise level (1meter distance from mot	tor) 61	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	1R x 3C x 16mm ² /2 x M25 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

 $T_{\rm K}/T_{\rm N}$ - 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 $\,$

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

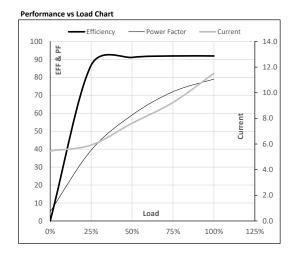




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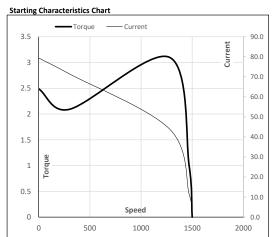
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	5.5	7.5	11.5	1470	3.71	36.36	IE4	40	S1	1000	0.0476	88

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 5.5 5.9 7.6 9.2 11.5 Torque Nm 0.0 8.9 18.0 27.1 36.4 Speed r/min 1500 1493 1486 1478 1470 Efficiency % 0.0 86.7 91.1 91.9 91.9 72.0 Power Factor 5.2 39.4 59.0 79.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1279	1470	1500	
Current	Α	79.4	71.5	44.0	11.5	5.5	
Torque	pu	2.5	2.1	3.1	1	0	



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

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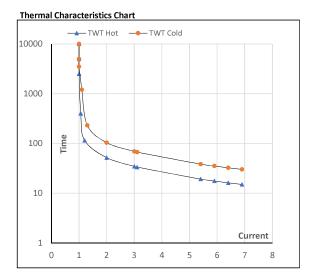




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Υ	50	5.5	7.5	11.5	1470	3.71	36.36	IE4	40	S1	1000	0.0476	88

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR						
TWT Hot	s	10000	52	35	30	25	18	15						
TWT Cold	S	10000	104	69	60	45	35	30						
Current	pu	1	2	3	4	5	5.5	6.9						



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

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